Agriculture Statistics Yearbook - 1987

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PREFACE

The Agriculture Statistics Yearbook for Alberta provides 1987 statistics where available, with the most current statistics otherwise, thereby serving as a reference to those interested in agriculture in Alberta. Although several graphs and short tables date back a few years, long term data and tables for years prior to 1986 may be obtained from the Statistics Branch. In addition, we remind users that the data in this publication is subject to revision.

The Statistics Branch publishes and revises much of the data in this publication throughout the year. This data is released on statistics fact sheets and this format may be more appropriate for those individuals wishing only selected pages of this publication. If this is the type of information you require please contact us at any time during the year.

Data was derived from several sources with major contributions made by the Agriculture/Natural Resources Division, Statistics Canada in cooperation with Alberta Agriculture. We also gratefully acknowledge the cooperation of Agriculture Canada and contributions of other federal and provincial departments mentioned within Sources and Methods located at the back of this publication.

Special appreciation is extended to all the agricultural producers and processors that responded to surveys or supplied other information to either Statistics Canada or Alberta Agriculture.

Evaluation of this publication and suggestions for improvements will be greatly appreciated and should be forwarded to Statistics Branch, Alberta Agriculture, Edmonton.

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1987 IN REVIEW

FARM CASH RECEIPTS The Total Realized Net Income of Alberta farmers and ranchers for 1987 is estimated to have increased by 9 per cent over 1986 to $823 million, the highest level on record. Realized Net Income, which is income available after expenses to pay down principal on debt and for personal consumption, investment, savings and taxes increased in 1987 due to a healthy livestock sector and substantial government program payments. Payments under Western Grain Stabilization (W.G.S.A.), Crop Insurance, the Special Canadian Grains program (S.C.G.P.) and other programs accounted for an estimated 22 per cent of Total Farm Cash Receipts in 1987. In addition, payments under the Alberta Farm Fuel Distribution Allowance, Crow Benefit Offset Program and other expense reduction programs reduced Total Operating Expenses by an estimated 9 per cent.

Total Farm Cash Receipts for 1987, estimated at $3,970 million, were 5 per cent higher than in 1986. Increased shipment of wheat and canola as well as greater returns from cattle and hogs contributed to the increase in Farm Cash Receipts. Also responsible for the increase was the $368 million paid out under the Western Grain Stabilization Act and a further $252 million paid out under the Special Canadian Grains Program.

Crop Receipts from marketings in 1987 were approximately $1,275 million or about six per cent below 1986 levels.

Total Livestock Receipts amounted to $1,910 million in 1987 or down over 1 per cent from 1986 levels. The market actually returned almost seven per cent more in 1987 than in 1986 but because of an absence of deficiency and supplementary payments, total receipts from livestock were below 1986 levels.

Total Operating Expenses rebounded to an estimated $2,566 million in 1987 which was a six per cent increase over the $2,418 million in 1986 and represents a turn around after three consecutive years of declining operating expenses. Increases in fuel expenses, wages to farm labor, repairs and feeder cattle expenses were largely responsible for the increase but were somewhat offset by decreases in interest payments, fertilizer expenses and seed costs.

Wheat Alberta Wheat Receipts in 1987 increased $41 million to an estimated $559 million, up 8 per cent from 1986. The increase was primarily due to significantly increased delivery opportunities in 1987 after a record harvest in 1986. Calendar year 1987 deliveries of wheat were 6.25 million metric tonnes or sixty three per cent ahead of the 1986 level of 3.84 million tonnes. Despite the sizeable increase in deliveries, price reductions held total receipts from the sale of wheat to a relatively small increase. The Canadian Wheat Board initial payment for 1 CW Red Spring wheat was reduced to $110 per tonne basis Thunder Bay for the 1987-88 crop year from the previous years level of $130 per tonne. There was no final payment for hard red spring wheat made in 1987.

Barley Alberta Barley Receipts declined significantly in 1987 to $228 million from the 1986 level of $319 million. This 29 per cent decrease in receipts was due in part to a small decline in deliveries during the year but largely because of price declines. Deliveries of barley in 1987 were approximately 3.43 million metric tonnes, compared to the 3.53 million tonnes a year earlier. The already low initial price of $80 per tonne basis in store Thunder Bay for the 1986-87 crop year was further reduced to $60 per tonne for the 1987-88 crop year which contributed significantly to the decrease in receipts from the sales of barley. The Alberta

Input Monitoring System (AIMS) reported that monthly average feed barley prices for 1987 were $61.55 per tonne compared to the average for 1986 of $88.19 per tonne. Final payments for the 1985-86 crop year paid out in 1987 amounted to $12 million compared to the $71.8 million in 1986.

Canola Alberta canola receipts are estimated to have increased to $301 million in 1987, a 13 per cent increase over the 1986 level of $266 million. The increase was due to delivery volumes which were almost 18 per cent greater than the 1986 level of 1.3 million tonnes. Offsetting the increase in deliveries somewhat was a decline in prices. Average producer prices for 1987 were estimated to be about $207 per tonne, down $16 per tonne from 1986.

Price declines in 1987 were a result of record palm oil production and stocks, ample global supplies of soybeans and large stocks of canola which resulted from relatively good yields in 1986.

Crop Insurance, W.G.S. Payments and Special Canadian Grains Program Payments Alberta farmers received $130 million in payouts under the Hail and Crop Insurance program in 1987. This was almost 17 per cent less than the 1986 payment of $156 million. The Western Grain Stabilization Act, payments are made to participating grain producers if net cash flow from grains in a particular year is below the preceding five year average, under the program a total payout of $1,398 million was allocated to participating prairie farmers in 1987, with Alberta farmers receiving an unprecedented $368 million. This amount was over 60 per cent higher than the payout of $225 million in 1986. In 1987 money under the Special Canadian Grains program was paid out to Canadian producers to compensate for the hurt arising from the "subsidy wars" being waged by major global exporters. Of the $1 billion allotted to Canadian producers in 1987, Alberta farmers received more than $252 million. Payouts under the three above mentioned programs accounted for $750 million or over 36 per cent of total crop receipts.

Cattle and Calves Provincial receipts from the sale of cattle and calves in 1987 amounted to over $1,213 million which represented almost a 10 per cent increase over the 1986 level. Total cattle slaughter declined nationally by about 8 per cent but declined provincially by less than 2 per cent to 1,172,747 head. Live cattle exports (excluding interprovincial movements) increased by almost four per cent to over 111,000 head in 1987. Like 1986 these exports consisted largely of slaughter cattle exports to the U.S.A.. The Alberta A1,2 slaughter steer price (Calgary) averaged $81.60/cwt in 1987, which was 13 per cent above the 1986 level of $72.22/cwt. 800-900 lb feeder steers averaged $94.90/cwt on the Edmonton market in 1987 while in the previous year they averaged $80.88/cwt, or over $14.00/cwt less than 1987. Low prices for feed grain and the influence of the provincial Crow Benefit Offset program were largely responsible for the strong demand for feeder cattle in 1987.

An absence of program payments for livestock had a downward impact on total receipts from livestock during the year.

Hogs Total receipts from the sale of hogs are estimated to have increased in 1987 by almost 3 per cent to over $284 million. The increase was attributable to dramatic increases in hog slaughter numbers as the industry entered into the peak period of the hog production cycle. Alberta producers sold 1,944,271 hogs to domestic slaughterhouses in 1987, representing a 5 per cent increase from the 1986 level. The increase in slaughter numbers more than offset the price decline in 1987 resulting in the increase in total hog receipts. Hog slaughter

during the second half of 1987 was 3 per cent greater than in the first half and increases in slaughter numbers appear to be continuing in 1988. Alberta hog exports declined by less than 2 per cent in 1987 to 98,500 head. A corresponding 14 per cent increase in pork exports more than offset the decline in live hog exports. There were no payments made under the Red Meat Stabilization program for hogs in 1987.

Dairy Receipts from the sale of milk and cream decreased by just over 1 per cent in 1987 to $240 million from $243 million in 1986. The decline in dairy receipts is attributable to price decreases for fluid milk. Industrial milk and cream prices were higher in 1987 and somewhat offset the 4 per cent decline in fluid milk prices.

In June of 1987, the price paid to producers for fluid milk declined from $48.13/hl to 47.15/hl and in September 1987 reverted back to $48.13/hl. These price changes resulted from the impact of the feed cost component on the milk pricing formula used by the Public Utilities Board.

OPERATING EXPENSES Total Operating Expenses for 1987 increased to $2,566 million from the 1986 level of $2,418 million. Machinery expenses (including fuel), feeder cattle expenses and wages to farm labor were largely responsible for the 6 per cent increase. The largest component contributing to increased operating expenses was fuel at $225 million or 57 per cent above the 1986 level of $143 million. The 1986 level was down substantially from the norm because of a retroactive fuel rebate made to farmers that year. Offsetting the increase in total operating expenses somewhat were declines in gross farm rent, fertilizer expenses, and interest payments.

Interest Payments Interest expenses in 1987 were estimated to be $397 million or down 3 per cent from the 1986 level of $409 million. Producer participation in government programs to reduce interest expenses, helped reduce interest expenses in 1987. Chartered bank prime rates averaged approximately 9.5 per cent in 1987, compared to the 1986 level of 9.25 per cent. Farm debt outstanding at the end of 1987 was $5.4 billion compared to an estimated $5.2 billion at the end of 1986. The decrease in interest payments can almost wholly be attributed to programs available to producers to reduce interest costs.

Machinery Expenses Total Machinery Expenses including machinery repairs and fuel expenses increased by $96 million in 1987. Fuel expenses were largely responsible for the increase as they rebounded after a year of lower prices in 1986. AIMS reports that the price for gasoline used for agricultural purposes was 6 per cent higher than in 1986 while the diesel fuel price was up by over 8 per cent. Alberta producers also indirectly benefited from the Alberta Farm Fuel Distribution Allowance which paid out $123 million to fuel distributors in 1987. This figure was down by over $60 million from 1986 because of a retroactive direct cash rebate paid to farmers from the fund in 1986. Also the amount of benefit to farmers was reduced to 9¢/litre from 14¢/litre effective June 1, 1987.

Machinery repair expenses amounted to $289 million in 1987 or about 5 per cent above the 1986 level of $275 million.

Fertilizer Expenses After four years of steady increases, fertilizer sales declined in 1986 and again in 1987. In 1987, total fertilizer expenses were estimated at $253 million or down over 11 per cent from the 1986 level of $286 million. The Agricultural Input Monitoring System reported that 1987 prices for Anhydrous Ammonia averaged

approximately $412/tonne compared to an average 1986 price of $461, or an 11 per cent decline in price. The Alberta Farm Fertilizer Price Protection Plan reduced fertilizer expenses for Alberta producers by approximately $16.4 million in 1987 compared to $19.4 million in 1986.

Feed Expenses Feed expenses as reported in the farm expense series pertain only to feed purchased through commercial channels. Inter-farm sales of feed are not included in the provincial feed expense estimate because the expense and receipt incurred by each party are viewed as offsetting transactions. Grains and forages grown on farms for feed purposes are also not included because the cost of inputs used in their production is captured under crop expenses. Feed expenses in 1987 increased by over 2 per cent to $166 million largely because of increased usage and increased livestock numbers. AIMS reports that feed barley prices declined by 30 per cent in 1987 from previous year levels. Prices for feed supplements increased by approximately 4 per cent in 1987 over 1986 levels.

The low price level for feed barley in combination with benefits received under the Crow Benefit Offset program (CBOP) has resulted in continued low levels for total feed expenses. The CBOP reduced feed expenses by an estimated $71.5 million in 1987 compared to a figure of $78 million in 1986.

Other Livestock Expenses This category increased to $242 million in 1987. This represents a 97 per cent increase over the 1986 level and is almost entirely due to increases in the cost of buying feeder cattle from outside the province as well as increases in the numbers brought in. In 1987, 182,000 head of feeder cattle were brought into the province from Saskatchewan which is almost one third more than the previous year. Feeder cattle imports from British Columbia in 1987 were ahead of 1986 levels as well.

Assistance Programs The Alberta Government continues to provide agricultural assistance programs as needed. The scope of the programs offered in 1987 was broad and provided for financial assistance for agricultural research, debt refinancing, new loans, disaster assistance, farm operating expense reduction and expansion of the food and agricultural processing sector. Research funding was also provided under the Farming for the Future Research Program. Numerous programs such as the Crop Insurance Modification/ Restoration program, Beekeepers Assistance and the Wildlife Damage Fund provided $22 million in payments to Alberta producers.

There was continued emphasis on expense reduction programs in 1987 through such programs as the Farm Fertilizer Price Protection Plan which provided $16.4 million in payments, the Alberta Farm Fuel Distribution Allowance which reduced fuel expenses by over $120 million and the Alberta Farm Credit Stability program which provided shielding from interest rate increases and amounted to over $16 million in 1987.

In total, provincial programs provided direct net benefits of over $260 million to Alberta producers in 1987.

Table 1
PRODUCTION AND GROSS FARM VALUE OF AGRICULTURAL PRODUCTS

	Production		Value Per Unit		Total Value	
	1986	1987[p]	1986	1987[p]	1986	1987[p]
	- tonnes -		- dollars -		- dollars -	
Field Crops:						
Wheat	7 348 000	5 987 000	92.99	85.33	683,000,000	511,000,000
Oats for grain	1 696 000	1 249 000	63.79	66.01	108,000,000	82,000,000
Barley for grain	7 446 000	6 924 000	69.65	51.52	519,000,000	357,000,000
Rye	235 900	153 000	63.08	69.82	14,900,000	11,000,000
Mixed grains	204 000	163 000	75.88	58.62	16,000,000	10,000,000
Flaxseed	50 800	48 300	167.98	176.00	8,500,000	8,500,000
Canola/Rapeseed	1 656 000	1 633 000	199.67	237.27	331,000,000	387,000,000
Mustard seed	29 500	24 500	284.31	198.41	8,400,000	5,000,000
Potatoes	245 000	286 000	115.71	159.17	28,000,000	46,000,000
Sugar beets	596 000	517 000	36.66	41.34	22,000,000	21,000,000
Tame hay	7 893 000	8 165 000	82.18	60.58	649,000,000	495,000,000
Other Crops					85,000,000	122,000,000
Total Field Crops					2,472,800,000	2,055,000,000
Livestock and Livestock Products:						
Cattle and Calves					1,166,000,000	1,274,000,000
Hogs					281,000,000	284,000,000
Sheep and Lambs					7,500,000	7,000,000
Total Livestock					1,454,500,000	1,565,000,000
Dairy					245,000,000	242,000,000
Poultry and Eggs					135,000,000	138,000,000
Honey					13,000,000	13,000,000
Other Livestock and Products					14,000,000	15,000,000
Total Livestock and Products					1,861,500,000	1,973,000,000

[p] preliminary

SOURCE OF FARM INCOME
(PER CENT)

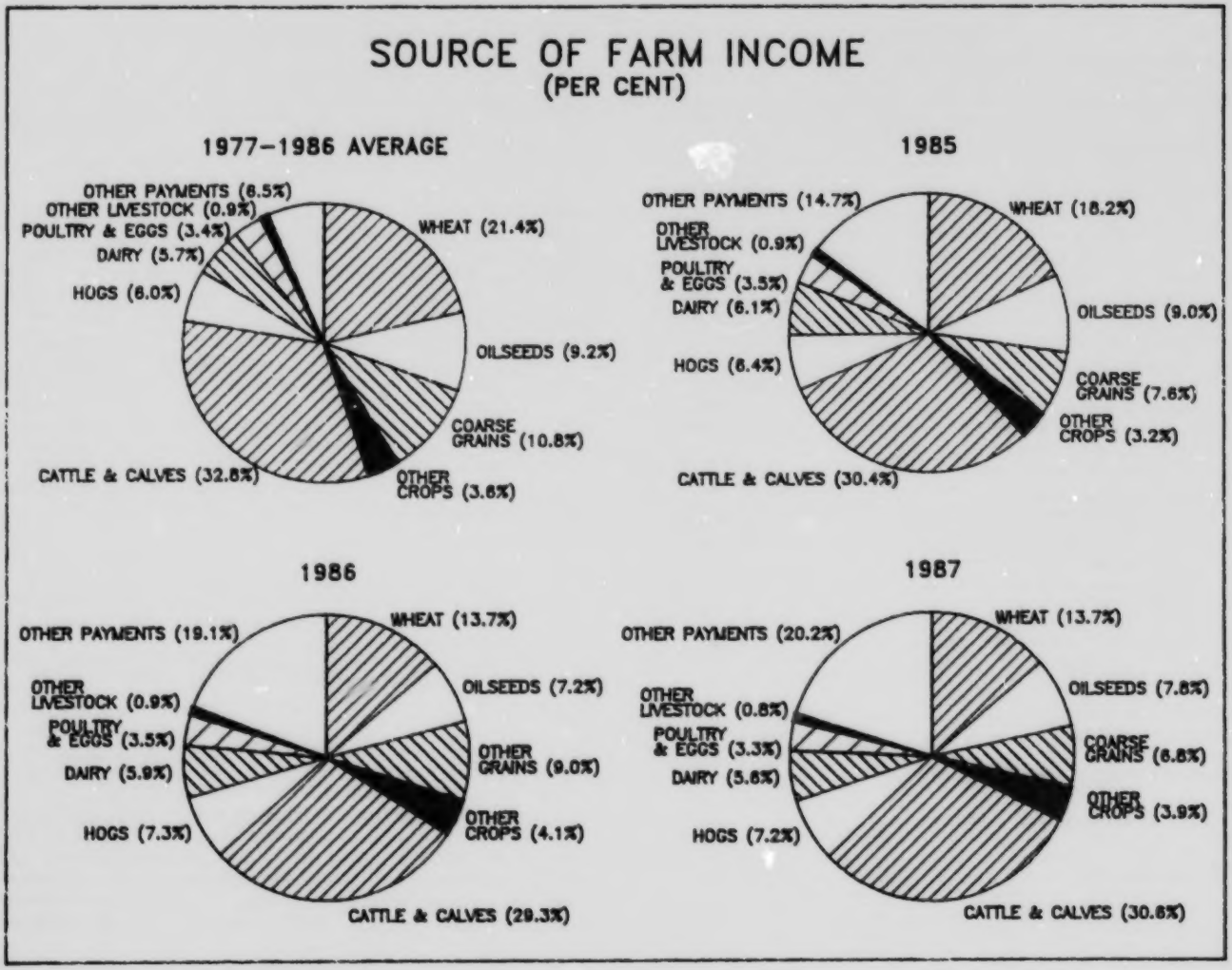


Table 2
CASH RECEIPTS FROM THE SALE OF FARM PRODUCTS

	1986		1987[P]	
	$'000	% of Total	$'000	% of Total
Wheat	518,000	13.7	559,000	14.1
Oats	17,000	0.4	20,000	0.5
Barley	319,000	8.4	228,000	5.7
Western Grain Stabilization	225,000	6.0	368,000	9.3
Special Canadian Grains Program	N/A	N/A	252,000	6.3
Crop Insurance Payments, etc.	250,000	6.6	152,000	3.8
C.W.B. Net Cash Advance & Deferments	75,000	2.0	-18,000	-0.5
Rye	5,000	0.1	5,000	0.1
Flaxseed	5,000	0.1	6,000	0.2
Canola/Rapeseed	266,000	7.0	301,000	7.6
Sugar Beets	13,000	0.3	21,000	0.5
Potatoes	30,000	0.8	34,000	0.9
Vegetables	30,000	0.8	32,000	0.8
Floriculture and Nursery	26,000	0.7	27,000	0.7
Other Crops	60,000	1.6	70,000	1.8
Total Crops	1,839,000	48.6	2,057,000	51.8
Cattle and Calves	1,106,000	29.3	1,213,000	30.6
Hogs	276,000	7.3	284,000	7.2
Sheep and Lambs	7,000	0.2	7,000	0.2
Milk and Cream	243,000	6.4	240,000	6.0
Poultry and Eggs	133,000	3.5	138,000	3.5
Other Livestock	27,000	0.7	28,000	0.7
Deficiency & Supplementary Payments	147,000	3.9	N/A	N/A
Total Livestock and Products	1,939,000	51.3	1,910,000	48.1
Other Cash Receipts	3,000	0.1	3,000	0.1
Total Cash Receipts	3,781,000	100.0	3,970,000	100.0

[P] preliminary

Note: Interim and final payments received through the Canadian Wheat Board (wheat, oats and barley) are included in the calendar year in which payments were received by farmers. Deficiency payments and supplementary payments included with products where applicable.

Totals may not add due to rounding

Table 3
NET INCOME OF FARM OPERATORS FROM FARMING OPERATIONS

	1	2	3 (1+2)	4	5 (3-4)	6	7 (3+6)	8 (7-4)
	Total Cash Receipts	Income In Kind	Realized Gross Income	Op. & Deprec. Charges	Realized Net Income	Value of Inventory Changes	Total Gross Income	Total Net Income
	- thousand dollars -							
1961	534,000	19,000	553,000	323,000	230,000	-40,000	513,000	190,000
1962	575,000	19,000	594,000	345,000	249,000	21,000	615,000	270,000
1963	529,000	19,000	548,000	369,000	179,000	103,000	651,000	282,000
1964	602,000	18,000	620,000	400,000	220,000	8,000	628,000	228,000
1965	669,000	19,000	688,000	430,000	258,000	28,000	716,000	286,000
1966	769,000	18,000	787,000	470,000	317,000	36,000	823,000	353,000
1967	796,000	17,000	813,000	510,000	303,000	-42,000	771,000	261,000
1968	805,000	17,000	822,000	549,000	273,000	62,000	884,000	335,000
1969	740,000	18,000	758,000	552,000	206,000	45,000	803,000	251,000
1970	720,000	17,000	737,000	550,000	187,000	32,000	769,000	219,000
1971	795,000	16,000	811,000	605,000	206,000	17,000	828,000	223,000
1972	955,000	18,000	973,000	681,000	292,000	26,000	999,000	318,000
1973	1,242,000	22,000	1,264,000	839,000	425,000	204,000	1,468,000	629,000
1974	1,744,000	21,000	1,765,000	1,084,000	681,000	-12,000	1,753,000	669,000
1975	1,899,000	20,000	1,919,000	1,275,000	644,000	99,000	2,018,000	743,000
1976	1,910,000	25,000	1,935,000	1,476,000	459,000	82,000	2,017,000	546,000
1977	1,960,000	26,000	1,986,000	1,590,000	396,000	-74,000	1,912,000	322,000
1978	2,286,000	31,000	2,317,000	1,798,000	519,000	100,000	2,417,000	619,000
1979	2,828,000	36,000	2,864,000	2,219,000	645,000	74,000	2,938,000	719,000
1980	3,143,000	40,000	3,183,000	2,579,000	604,000	152,000	3,335,000	756,000
1981	3,891,000	40,000	3,931,000	3,205,000	726,000	68,000	3,999,000	794,000
1982	3,825,000	37,000	3,862,000	3,233,000	629,000	-85,000	3,777,000	544,000
1983	3,731,000	38,000	3,769,000	3,191,000	578,000	-212,000	3,557,000	366,000
1984	3,959,000	39,000	3,998,000	3,357,000	641,000	-351,000	3,647,000	290,000
1985	3,848,000	35,000	3,883,000	3,342,000	541,000	-91,000	3,792,000	450,000
1986	3,781,000	37,000	3,818,000	3,061,000	757,000	450,000	4,268,000	1,207,000
1987[P]	3,970,000	34,000	4,004,000	3,181,000	823,000	15,000	4,019,000	838,000

[P] preliminary

Table 4
NET INCOME OF FARM OPERATORS FROM FARMING OPERATIONS

	1986	1987[P]	% Change
	- thousand dollars -		
1. Total Cash Receipts	3,781,000	3,970,000	+ 5.0
2. Income in Kind	37,000	34,000	- 8.1
3. Realized Gross Income (1+2)	3,818,000	4,004,000	+ 4.9
4. Operating and Depreciation Charges	3,061,000	3,181,000	+ 3.9
5. Realized Net Income (3-4)	757,000	823,000	+ 8.7
6. Value of Inventory Changes	450,000	15,000	- 96.7
7. Total Gross Income (3+6)	4,268,000	4,019,000	- 5.8
8. Total Net Income (7-4)	1,207,000	838,000	- 30.6

Table 5
INCOME IN KIND

	1986	1987[P]	% Change
	- thousand dollars -		
Dairy Products	1,829	1,759	- 3.8
Poultry and Eggs	2,488	2,476	- 0.5
Meat	11,831	11,625	- 1.8
Fruit and Vegetables	9,386	9,711	+ 3.5
Honey and Maple Products	72	64	- 11.1
Forest Products	8,230	8,443	+ 2.6
Wool	8	10	+ 25.0
Total	33,844	34,088	+ 0.7

[P] preliminary

Table 6
FARM OPERATING EXPENSES AND DEPRECIATION CHARGES

	1986	1987[P]	% Change
	- thousand dollars -		
Taxes	52,000	54,000	+ 3.8
Gross Farm Rent	179,000	142,000	- 20.7
Wages	212,000	219,000	+ 3.3
Interest	409,000	397,000	- 2.9
Fuel and Lubricants	143,000	225,000	+ 57.3
Machinery Repairs and Expenses	275,000	289,000	+ 5.1
Fertilizer	286,000	253,000	- 11.5
Other Crop Expenses	215,000	211,000	- 1.9
Feed	162,000	166,000	+ 2.5
Other Livestock Expenses	123,000	242,000	+ 96.7
Repairs to Buildings	49,000	50,000	+ 2.0
Electricity and Telephone	64,000	67,000	+ 4.7
Miscellaneous	249,000	251,000	+ 0.8
Total Operating Expenses	2,418,000	2,566,000	+ 6.1
Depreciation of Buildings and Machinery	643,000	615,000	- 4.4
Total Expenses	3,061,000	3,181,000	+ 3.9

[P] preliminary

Table 7
AVERAGE FARM INPUT PRICES

	January - March	April - June	July - September	October - December	1987 Average
Lumber 2X6 spruce, M	$ 391.62	$ 376.71	$ 380.28	$ 394.55	$ 385.79
Sheathing, ply., fir. 3/8", 4'X 8' sht	13.04	12.70	12.54	12.63	12.73
Cement, 40 kg	8.77	8.72	8.75	8.72	8.74
Barn paint, oil base, gal.	21.71	21.50	21.86	21.72	21.70
Pipe, plastic, 3/4", 75 psi., 100' coil	21.19	21.42	21.21	21.92	21.44
Rods, re-enforcing 1/2", 6 metres	4.00	3.90	3.87	3.98	3.94
Barbed wire, 12 gauge, double strand	44.53	43.99	43.94	43.13	43.90
Truck tires, 1st line, H78-15, ea.	74.49	73.09	73.18	73.89	73.66
Battery, 12V, 24 series, 525 cranking amps. ea.	69.81	70.02	71.15	72.20	70.80
V Belt, 1/2" X 70", ea	9.93	9.78	9.58	9.77	9.77
Antifreeze, 4 litres	7.21	7.18	7.10	6.90	7.10
Mechanical repairs, per hour	32.59	33.05	32.83	33.40	32.97
Baler twine - sisal 9,000'	25.09	25.23	24.98	25.30	25.15
Farm labour, per month, without board	1,096.97	1,097.41	1,085.80	1,093.12	1,093.33
Tractor, 100 hp/up	57,613.34	58,279.96	58,945.11	57,135.38	57,993.45
Tractor, 170 hp/up	96,449.50	99,568.46	98,619.49	101,415.99	99,013.36
Combine, self-prop	118,599.42	118,462.74	119,279.91	123,976.20	120,079.57
Chisel plow, 23'-27'	13,279.97	12,726.52	12,883.51	13,818.15	13,177.04
Round baler, pull type	20,327.85	20,721.69	20,651.63	20,378.52	20,519.92
Double disc, hvy duty, 19'- 21'.	16,755.08	16,877.29	17,493.43	18,188.01	17,328.45
Truck, 1/2 t., Ford/Chev	11,832.40	11,923.66	12,533.28	13,288.60	12,394.48
Calf starter, supp., (20-24%), 25 kg	8.19	7.95	8.02	7.98	8.04
Dairy supp., (32%), 25 kg	8.66	8.60	8.68	8.85	8.70
Hog supp., (40%), 25 kg	11.26	11.22	11.55	11.75	11.45
Broiler grower complete feed, (18-20%), 25 kg	8.76	8.12	7.95	7.72	8.14
Cattle mineral, 25 kg	16.46	16.74	16.55	16.78	16.63
Feed barley, No. 1, (farm gate), bu	1.44	1.42	1.35	1.14	1.34
Hay, good quality baled, ton	62.91	58.35	59.48	61.58	60.58
Fertilizer, 46-0-0, tonne, bulk	226.31	235.46	236.15	220.41	229.58
Fertilizer, 11-51-0, tonne, bulk	333.02	345.82	348.34	331.90	339.77
Fertilizer, 82-0-0, tonne, bulk (inc. appl)	414.92	425.01	430.92	376.10	411.74
2-4D low volatile, 20 litres	58.09	58.37	59.52	59.80	58.95
Avadex BW, liquid, 5 gal	175.35	176.55	176.43	176.51	176.21
Trifluralin, Treflan, 17 litre case	173.79	175.30	170.43	166.07	171.40
Penicillin, injectable, 100 cc	5.13	5.33	5.45	5.48	5.35
Vitamin A D E, injectable, 100 cc	4.92	4.93	4.99	5.07	4.98
Seed, wheat 100 kg., bulk	25.42	23.43	23.15	21.51	23.38
Seed, barley, 100 kg., bulk.	24.17	23.22	23.45	21.64	23.12
Purple gasoline, 100 litres	21.71	24.00	27.67	27.68	25.27
Diesel fuel, 100 litres	18.87	21.68	25.36	25.46	22.85
Propane, bulk, 100 litres	20.06	19.07	18.70	18.36	19.05
Natural gas, GJ	2.95	2.91	2.89	2.85	2.90
Diesel engine oil, 5 litres	8.19	8.17	8.21	8.37	8.23

Table 8
FARM CAPITAL AND FARM DEBT

	Land and Buildings	Livestock and Poultry	Implements and Machinery	Total	Farm Debt
			- thousand dollars -		
1967	3,206,599	604,245	843,354	4,654,198	n/a
1968	3,479,502	579,155	901,989	4,960,646	n/a
1969	3,409,912	746,291	934,211	5,090,414	n/a
1970	3,240,849	797,276	956,970	4,995,095	n/a
1971	3,530,252	803,855	867,446	5,201,553	932,598
1972	4,143,591	1,016,172	905,851	6,065,614	1,038,553
1973	5,181,261	1,380,491	986,590	7,548,342	1,289,081
1974	6,975,770	1,366,308	1,275,851	9,617,929	1,537,218
1975	8,957,880	1,024,330	1,726,808	11,709,018	1,764,402
1976	10,627,528	1,125,454	2,110,053	13,863,035	2,029,718
1977	12,523,091	1,099,894	2,430,618	16,053,603	2,233,468
1978	14,942,972	1,710,604	2,791,088	19,444,664	2,603,073
1979	21,172,490	2,478,357	3,297,240	26,948,087	3,060,789
1980	27,137,589	2,551,751	3,842,797	33,532,137	3,428,780
1981	29,961,159	2,531,865	4,362,215	36,855,239	4,063,427
1982	30,260,771	2,524,214	4,555,805	37,340,790	4,554,468
1983	28,445,125	2,497,341	4,602,848	35,545,314	4,872,696
1984	26,453,966	2,496,338	4,495,647	33,445,951	5,062,004
1985	24,866,728	2,178,420	4,464,253	31,509,401	5,240,932
1986	22,773,520	2,430,112	5,382,302	28,585,934	5,398,166
1987[P]	19,734,844	2,763,361	5,186,163	27,664,368	n/a

[P] preliminary

n/a - not available

FIELD CROPS

In 1987, the provincial area seeded to principal crops and forages was 22.4 million acres, up slightly from 22.3 million acres in 1986. While the area seeded to All Wheat dropped by 300 thousand acres down to 7.3 million acres, barley area rose marginally from 5.9 to 5.95 million acres in 1987. Canola seedings increased by 50 thousand acres to reach 2.85 million acres. Hay showed the largest increase in area, from 3.95 million acres in 1986 to 4.35 million in 1987. Land in summerfallow acreage was slightly above 1986 levels at 5.3 million acres.

CONDITIONS PRIOR TO THE 1987 GROWING SEASON

Though wet conditions in the fall of 1986 led to delays in harvesting and allowed for only minimal completion of field work, a strong moisture base was initiated for the 1987 growing season.

A below average snowfall during the mild 1986-87 winter resulted in little runoff reported in all Regions. Sloughs and dugout levels were average or below average. Despite the lack of snow over the winter, subsoil moisture was rated as good to excellent in the spring of 1987. Across southern Alberta, surface moisture conditions were dry and led to severe dust storms in mid-April. The Drumheller and Oyen districts were particularly hard hit by the dry spell.

Offsetting the lack of snow cover, mild temperatures prevented extensive winterkill of fall seeded and perennial crops. The 1987 winterkill estimates were two per cent for winter wheat and five per cent for fall rye, compared with 1986 figures of four and six per cent, respectively. Alfalfa suffered little damage and had an excellent start to the 1987 growing season.

CROP CONDITIONS DURING THE 1987 GROWING SEASON

The mild winter and warm, dry spring allowed for an early start on field work in the spring of 1987. Seeding was 85 per cent completed on May 20 when a blizzard struck the northern half of the province. The Northwest and North Central Regions received an average 50 mm of precipitation, while eastern areas reported very little moisture accumulation. Freezing temperatures throughout the province followed, causing extensive frost damage to crops of fall rye, canola, and vegetables which had already emerged. Cereal crop development was set back, alfalfa was badly wilted and some canola needed reseeding as a result of the frost.

Following the blizzard, warm weather prevailed and, by June 1, the majority of seeding was complete. Surface moisture at this time was rated as poor in the South, South Central and North East Regions with reports of uneven emergence of late seeded crops. Fall seeded crops were showing signs of moisture stress. In the Northwest and Peace Regions, soil moisture was good to excellent with crops progressing well.

Mid-June rain showers in the South, South Central, and North Central Regions improved crop outlooks for those areas, but only the Northwest and Peace Regions were expecting average yields at this time. By the end of June, crops in the dry areas showed further deterioration and the prospect of drought-reduced production was imminent. In the driest Regions, yields from the first hay cut averaged only 50 per cent of norm.

On July 4th and 5th, much needed rains greatly improved crop prospects as precipitation levels ranged from 30 to 50 mm across the province. July was a warm, moist month with ample precipitation leading to the improvement of subsoil moisture

reserves from fair to good. The pattern of dry conditions in the southern corners and along the Saskatchewan border persisted, but crops were generally reported to be in good shape. Winter wheat harvest had begun in some areas by July 17.

At the end of July, a tornado hit the Edmonton area causing extensive crop damage from high winds and hail. The Peace Region experienced widespread flooding as 50 to 200 mm of rain fell in that area.

The first half of August saw cool, wet weather throughout the province, and brought haying and swathing operations to a standstill. Hay crops suffered quality deterioration as crops either lay in the wet fields or became overly mature.

While early seeded canola and barley were ready to be cut, harvest was impeded by unsettled weather through the latter half of August. The abundance of moisture caused grade deterioration with problems of bleaching and sprouting of cereals in the south, and second growth reported in the central and eastern Regions. Pastures were in good condition and soil moisture levels for fall seeding were excellent.

September brought warm weather and ideal harvesting conditions. By September 25, 99 per cent of the crop was swathed and 90 per cent had been combined. This was well ahead of an average harvest where only 64 per cent of the crop would be combined at this time.

The quality of the 1987 crop was much improved over 1986. Spring wheat had 58 per cent of production grading number 1 and 2, compared with only 23 per cent the previous year. Seventy-five per cent of Canola made the number 1 grade, versus 46 per cent in 1986. Total production of cereals and oilseeds was estimated at 15.5 million metric tonnes (mmt), down from 18.3 mmt the year before.

INSECTS AND DISEASES

The insect problems which plagued the province over the past three years diminished in 1987. The area treated for grasshoppers declined from 1.4 million acres in 1986 to less than 500,000 acres in 1987. The Grasshopper Control Assistance Program was terminated due to the reduced grasshopper population. The wet conditions in July and August of 1987 interrupted the reproductive cycle of grasshoppers and the area requiring treatment is expected to shrink even further in 1988.

The other insect causing trouble was the red backed cut worm in the south western corner of the province. In 1986 about 70,000 acres were infested while less than 10,000 acres were affected in 1987. This insect is not expected to be a problem in 1988. The army cut worm could become a problem in 1988 due to high fall populations. They could damage the winter wheat crops if conditions are dry next spring.

Disease problems did not have a great impact on yields this year. Conditions were dry in June preventing the widespread infection of young plants. When conditions finally did become favourable for the spread of disease in July and August the plants had developed sufficiently to reduce yield loss. There were widespread reports of leaf diseases on barley and oats but yields indicate that the crops were not affected. A few fields of canola did suffer injury from alternaria and sclerotinia but this was not widespread.

HAIL AND WEATHER DAMAGE

The Alberta Hail and Crop Insurance Corporation has reported that farmers insured approximately 13 million acres. The total premiums amounted to $114 million. Indemnities paid out as of December 16 were $104.3 million. Crop indemnities amounted to

40 per cent of the payout while hail accounted for 33 per cent. The Forage Program paid out 25 per cent of all indemnities despite record levels of hay production.

IRRIGATION

The irrigation of field crops is a vital aspect of agriculture in Alberta and contributes to the stability of the southern Alberta economy. In 1987, the 13 Irrigation Districts had close to 1.16 million acres assessed as irrigable with 1.05 million acres actually being irrigated. This accounts for almost two-thirds of the irrigated land base in Canada.

Cereal grains continue to be the most prominent crops grown under irrigation, representing 55 per cent of the irrigated acreage. Hay area followed with 23 per cent, and tame pasture and oilseeds were a further 6 and 5 per cent, respectively.

All of Alberta's sugar beet crop and about 85 per cent of provincial commercial vegetables and potatoes are grown under irrigation.

Table 9
IRRIGATION BY DISTRICT, 1937

District	Assessed Irrigable Acres*	Acres Actually Irrigated
Aetna	3,444	2,800
Bow River	190,263	175,179
Eastern	249,372	233,633
Leavitt	4,479	3,600
Lethbridge Northern	121,494	117,955
Magrath	14,885	12,400
Mountain View	3,690	3,184
Raymond	44,407	36,000
Ross Creek	1,210	685
St. Mary River	334,285	334,286
Taber	73,654	69,413
United	34,450	12,526
Western	85,405	47,000
Total	1,161,038	1,048,661

* Permanent and Terminable Acres

Table 10
CROP ACRES IN THE MAJOR IRRIGATION DISTRICTS

	1984	1985	1986	1987
			- acres -	
Total Grains[1]	306,402	553,077	547,437	493,390
Total Oilseeds[2]	70,206	58,154	50,568	61,131
Total Hay[3]	183,572	193,406	235,246	251,494
Total Tame Pasture	50,465	53,650	50,759	62,794
Total Other Fodder[4]	28,446	34,701	36,208	37,275
Total Sugar Beets	30,831	11	28,400	29,382
Total Potatoes	14,943	17,517	16,684	17,692
Total Other Specialty Crops[5]	48,199	55,272	51,858	67,021
Total Crops Irrigated	933,064	965,788	1,017,160	1,020,179
Total Summerfallow	5,924	8,125	8,102	10,899
Total Irrigated Cropland	938,988	973,913	1,025,262	1,031,078

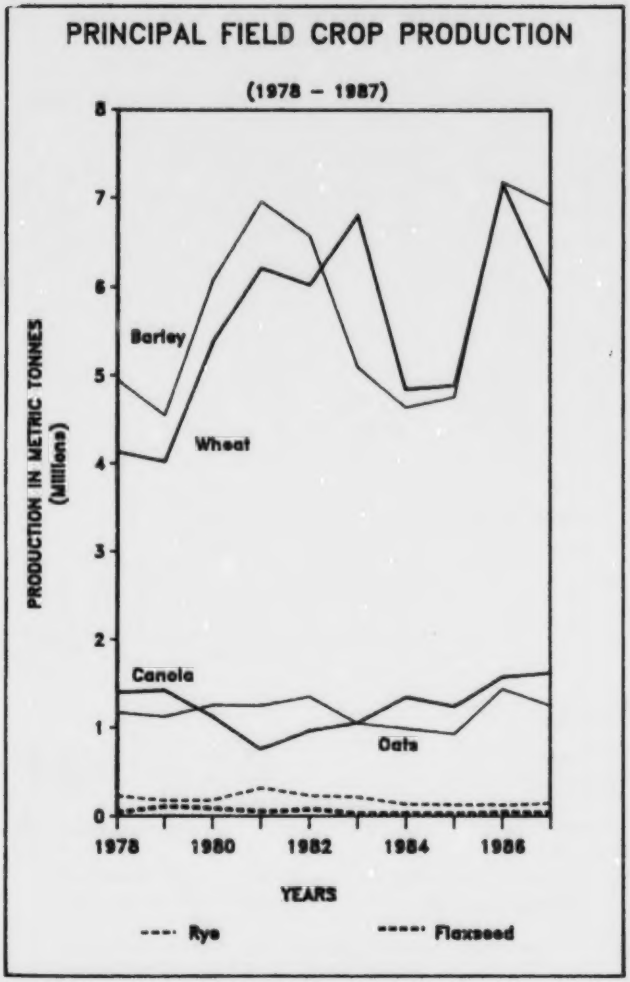
[1] Wheat, oats, barley, mixed grain and rye.

[2] Flaxseed, canola/rapeseed, sunflowers and mustard.

[3] Alfalfa hay and sweet clover hay.

[4] Greenfeed, silage corn, silage and grass hay.

[5] Peas, corn, beans, timothy, brome grass, alfalfa seed, sweet clover seed, small seeds and misc. crops.


PRINCIPAL FIELD CROP PRODUCTION
(1978 – 1987)
PRODUCTION IN METRIC TONNES (Millions)
8
7
6
5
4
3
2
1
0
Barley
Wheat
Canola
Oats
1978
1980
1982
1984
1986
YEARS
Rye
Flaxseed

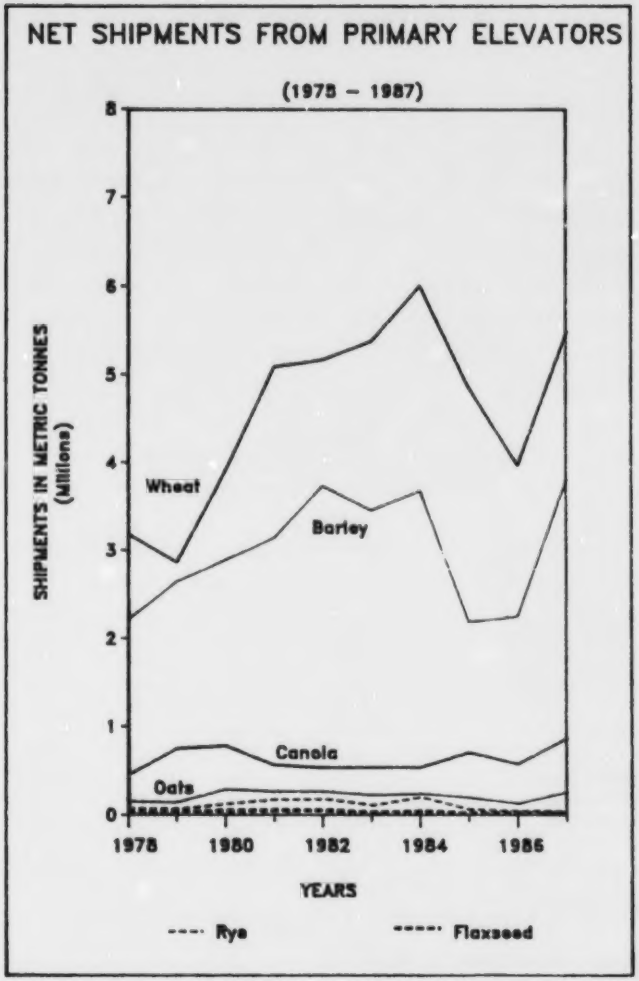

NET SHIPMENTS FROM PRIMARY ELEVATORS
(1978 – 1987)
SHIPMENTS IN METRIC TONNES (Millions)
8
7
6
5
4
3
2
1
0
Wheat
Barley
Canola
Oats
1978
1980
1982
1984
1986
YEARS
Rye
Flaxseed

Table 11
MUNICIPAL CO-OPERATIVE SEED CLEANING

	1985-86	1986-87
	- bushels -	
Commercial Seed	23,021,161	23,976,499
Pedigree Seed	1,721,054	2,023,416
Total Seed	24,742,215	25,999,915
Dockage Removed	950,856	3,826,748
Total Cleaning	25,693,071	29,919,800
Average Per Plant	388,066	388,568
Treated Seed	2,673,313	2,813,374

TABLE 12
INTENDED AND SEEDED AREAS OF PRINCIPAL FIELD CROPS

	1986		1987	
	Intended	Seeded	Intended	Seeded
	- thousand acres -			
Winter Wheat	420	450	450	470
Spring Wheat	6,350	6,500	5,800	6,000
Durum Wheat	600	650	750	800
All Wheat	7,370	7,600	7,000	7,270
Oats[1]	2,000	1,760	1,850	1,650
Barley[1]	5,900	5,900	6,250	5,950
All Rye	250	215	260	220
Mixed Grain	160	125	140	150
Flaxseed	80	70	80	70
Rapeseed	2,800	2,800	2,850	2,850
Corn for Grain	15	9	9	9
Summerfallow	4,500	5,250	4,550	5,300

[1] Includes oats and barley for grain and for hay.

Note: Intentions at March 15.

Table 13
FERTILIZER SALES

	1986	1987
	- tonnes -	
82-0-0 (Anhy. Amm.)	157 998	131 266
46-0-0 (Urea)	222 947	222 206
34-0-0 (Amm. No_3)	71 210	66 442
21-0-0 (Amm. SO_4)	21 885	22 883
28-0-0 (N. Soln.)	20 651	46 279
Other N	26 398	20 823
MAP (Monoammon Phos.)	273 370	244 822
18-46-0 DAP	74	67
16-28-0 OAP	27 114	21 292
Others	13 405	22 390
10-34-0 (Soln.)	1 735	-
0-0-60 (KCL)	34 572	35 140
Others	2 235	2 251
Elemental S	1 027	-
Total	874 621	835 855
Nutrients:		
Nitrogen	308 908	289 186
Phosphate	154 600	140 197
Potash	21 357	21 729
Sulphur	-	14 181
Ag. Lime	11 853	8 388

[1] Ending June 30.

Table 14
HAIL AND CROP INSURANCE

	No. of Farmers Insured[1]	Acres Insured	Premium[2]	Liability	Indemnities
		'000	$'000	$'000	$'000
1969	16,201	3,561	4,080	57,105	6,298
1970	12,856	2,306	2,730	31,941	1,699
1971	11,323	2,429	2,900	33,310	2,410
1972	10,202	2,314	2,784	37,073	2,119
1973	12,296	3,201	7,883	73,399	6,436
1974	13,883	3,838	14,356	125,863	13,806
1975	18,685	5,113	27,259	215,976	18,320
1976	18,580	5,343	30,298	229,289	16,500
1977	20,878	6,301	36,954	279,520	38,130
1978	19,258	5,908	38,484	259,967	22,686
1979	18,658	5,933	42,554	282,846	26,304
1980	20,138	6,970	55,915	389,136	31,793
1981	19,878	7,163	66,529	493,528	27,215
1982	19,600	7,375	71,579	557,638	62,502
1983	20,933	8,443	88,086	673,083	75,467
1984	23,305	9,552	99,092	774,201	199,616
1985	23,433	10,678	117,489	863,115	274,359
1986	30,158	11,953	147,204	926,587	124,439
1987[p]	28,395	11,075	108,943	649,282	97,434

[p] preliminary

[1] Includes all crop, hay and pasture, alfalfa and processing vegetables.

[2] Includes farmer and Federal share, Provincial high risk subsidy and hail endorsement.

Table 15
SUMMERFALLOW AREA

Census Division	1986	1987
	- thousand acres -	
1	559	554
2	566	563
3	105	106
4	682	701
5	844	846
6 & 15	147	159
7	443	493
8 & 9	68	89
10	534	597
11	127	177
12 & 16	153	139
13) 14)	168	177
17, 18, 19	854	699
Province	5,250	5,300

Table 16
AREA, YIELD AND PRODUCTION OF PRINCIPAL FIELD CROPS

Census Division	Area		Yield Per Acre		Production	
	1986	1987	1986	1987	1986	1987
	- acres -		- bushels -		- tonnes -	
			ALL WHEAT			
1	729,000	729,000	32.0	29.9	636 000	592 000
2	1,061,000	1,036,000	37.3	39.3	1 076 000	1 109 000
3	480,000	480,000	32.7	30.0	428 000	392 000
4	738,000	726,000	24.8	18.5	499 000	366 000
5	1,229,000	1,199,000	40.8	32.3	1 364 000	1 054 000
6 & 15	312,000	282,000	45.7	36.8	388 000	282 000
7	966,000	855,000	35.4	23.1	930 000	537 000
8 & 9	81,000	70,000	49.3	42.0	108 000	80 000
10	889,000	824,000	36.6	28.1	884 000	630 000
11	123,000	102,000	43.2	37.0	144 000	103 000
12 & 16	84,000	85,000	31.2	29.8	71 000	69 000
13) 14)	85,000	61,000	39.2	39.2	91 000	65 000
17, 18, 19	823,000	821,000	26.5	31.7	593 000	708 000
Province	7,600,000	7,270,000	34.9	30.3	7 212 000	5 987 000
			OATS FOR GRAIN			
1	16,000	5,000	52.4	50.6	13 000	4 000
2	30,000	16,000	71.2	72.8	33 000	18 000
3	43,000	23,000	52.7	66.2	35 000	23 000
4	64,000	26,000	53.1	37.9	52 000	15 000
5	41,000	35,000	78.4	68.0	50 000	37 000
6 & 15	70,000	58,000	82.2	78.9	89 000	71 000

Census Division	Area		Yield Per Acre		Production	
	1986	1987	1986	1987	1986	1987
	- acres -		- bushels -		- tonnes -	
		OATS FOR GRAIN (cont'd.)				
7	151,000	147,000	74.8	57.5	174 000	130 000
8 & 9	78,000	87,000	80.3	79.8	97 000	107 000
10	219,000	203,000	76.0	64.5	257 000	202 000
11	149,000	153,000	82.0	75.8	188 000	179 000
12 & 16	106,000	105,000	67.0	61.8	110 000	100 000
13) 14)	175,000	156,000	76.5	70.4	206 000	169 000
17, 18, 19	158,000	186,000	60.1	67.6	146 000	194 000
Province	1,300,000	1,200,000	72.3	67.5	1 450 000	1 249 000
		BARLEY FOR GRAIN				
1	53,000	55,000	52.5	59.1	61 000	71 000
2	277,000	307,000	65.3	72.3	394 000	483 000
3	398,000	385,000	50.8	57.4	440 000	481 000
4	50,000	42,000	47.2	33.5	51 000	30 000
5	445,000	445,000	65.2	57.5	632 000	557 000
6 & 15	557,000	609,000	69.2	63.5	839 000	842 000
7	386,000	404,000	62.0	48.4	521 000	426 000
8 & 9	624,000	635,000	65.2	63.8	886 000	882 000
10	668,000	731,000	62.8	51.0	913 000	812 000
11	521,000	513,000	65.0	59.4	737 000	663 000
12 & 16	251,000	251,000	53.0	47.0	290 000	257 000
13) 14)	451,000	490,000	58.4	55.3	573 000	590 000
17, 18, 19	869,000	833,000	44.7	45.7	846 000	829 000
Province	5,550,000	5,700,000	59.5	55.8	7 183 000	6 923 000

A.R.A.	Area		Yield Per Acre		Production	
	1986	1987	1986	1987	1986	1987
	- acres -		- bushels -		- tonnes -	
			FLAXSEED			
1	13,000	11,300	24.4	31.0	8 100	3 900
2	35,300	26,100	24.3	22.7	21 800	15 000
3	4,400	3,900	18.0	19.4	2 000	1 900
4A	14,600	13,000	22.0	19.7	8 200	6 500
4B	8,600	7,600	18.8	22.5	4 100	4 300
5	2,000	1,800	24.3	22.5	1 200	1 000
6	1,900	1,700	19.2	22.3	900	1 000
7	5,200	4,600	14.9	16.6	2 000	1 900
Province	85,000	70,000	22.4	22.9	48 300	40 500
			CANOLA / RAPESEED			
1	29,400	32,500	30.5	33.9	20 300	25 000
2	205,100	234,100	31.5	31.2	146 500	165 700
3	152,600	180,400	27.3	26.9	94 500	110 100
4A	434,300	468,300	27.9	26.5	274 800	281 500
4B	620,900	585,400	25.4	25.4	357 700	337 200
5	355,300	312,100	26.9	26.0	216 800	184 000
6	234,900	231,900	22.4	24.6	119 300	129 400
7	767,500	805,300	20.6	21.9	358 600	400 000
Province	2,800,000	2,850,000	25.0	25.3	1 588 500	1 632 900

A.R.A.	Area		Yield Per Acre		Production	
	1986	1987	1986	1987	1986	1987
			ALL RYE			
	- acres -		- bushels -		- tonnes -	
1	42,300	43,300	25.7	23.6	27 700	26 000
2	54,700	63,000	41.9	26.7	58 200	42 700
3	50,100	45,100	46.4	33.2	59 000	38 000
4A	46,000	44,900	31.7	24.8	37 100	28 300
4B	6,900	7,200	36.5	28.0	6 400	5 100
5	7,100	8,000	46.2	32.9	8 400	6 700
6	3,500	3,700	37.4	28.3	3 400	2 700
7	4,400	4,800	29.8	23.8	3 300	2 900
Province	215,000	220,000	37.2	27.3	203 500	152 400
			TAME HAY			
	- acres -		- tons -		- tonnes -	
1	201,900	221,300	2.0	2.8	359 000	570 200
2	311,300	328,400	3.1	2.9	878 300	875 900
3	414,800	415,400	2.3	1.8	861 800	674 600
4A	193,800	212,900	1.7	0.9	295 400	168 000
4B	238,000	242,600	2.0	2.0	431 800	429 200
5	952,100	1,025,400	2.5	2.3	2 193 900	2 120 900
6	952,100	1,025,000	2.0	2.1	1 744 700	1 934 100
7	686,000	879,000	1.8	1.7	1 132 600	1 387 500
Province	3,950,000	4,350,000	2.2	2.1	7 897 500	8 160 400
			OTHER CROPS			
	- acres -				- tonnes -	
Winter Wheat	450,000	470,000	39.6 (bu)	31.9 (bu)	484 000	408 000
Durum Wheat	650,000	800,000	31.5 (bu)	31.3 (bu)	558 000	680 000
Mixed Grains	125,000	150,000	64.0 (bu)	53.3 (bu)	163 000	163 000
Fall Rye	170,000	180,000	40.0 (bu)	27.8 (bu)	173 000	127 000
Spring Rye	45,000	40,000	26.7 (bu)	25.0 (bu)	30 500	25 400
Corn for Grain	7,300	9,000	93.2 (bu)	92.2 (bu)	17 300	21 100
Peas, dry	14,700	70,000	38.1 (bu)	28.6 (bu)	15 200	54 400
Lentils	12,200	50,000	820 (lbs)	1,200 (lbs)	4 500	27 200
Mustard Seed	70,000	50,000	1,029 (lbs)	1,080 (lbs)	32 700	24 500
Potatoes	22,500	23,500	264 (cwt)	280 (cwt)	266 400	299 000
Sugar Beets	30,000	29,500	21.9 (tons)	21.1 (tons)	595 000	565 000
Fodder Corn	22,000	18,000	16.0 (tons)	13.9 (tons)	327 000	227 000

Table 17
SUPPLY AND DISPOSITION OF PRINCIPAL CROPS

	WHEAT				OATS			
	1983-84	1984-85	1985-86	1986-87	1983-84	1984-85	1985-86	1986-87
	- tonnes -				- tonnes -			
Opening Stocks August 1	500.0	480.0	260.0	200.0	350.0	200.0	180.0	170.0
Production	6 804.0	4 858.0	4 844.0	7 212.0	1 049.0	987.0	972.0	1 450.0
TOTAL SUPPLY	7 304.0	5 338.0	5 104.0	7 412.0	1 399.0	1 187.0	1 152.0	1 620.0
Marketings	6 064.7	4 399.1	4 368.0	5 430.8	249.4	217.2	183.0	288.0
Seed	277.0	293.4	286.5	247.0	61.1	62.8	64.5	56.0
Carryover	480.0	260.0	200.0	950.0	200.0	180.0	170.0	500.0
Feed, Waste and Dockage	482.9	385.5	249.0	784.0	888.3	727.0	734.5	776.0
TOTAL DISPOSITION	7 304.0	5 338.0	5 104.0	7 412.0	1 399.0	1 187.0	1 152.0	1 620.0

	BARLEY				CANOLA[1]			
	1983-84	1984-85	1985-86	1986-87	1983-84	1984-85	1985-86	1986-87
	- tonnes -				- tonnes -			
Opening Stocks August 1	1 560.0	570.0	450.0	400.0	15.0	3.0	40.0	85.0
Production	5 095.0	4 638.0	4 768.0	7 185.0	1 066.0	1 361.0	1 247.0	1 610.0
TOTAL SUPPLY	6 655.0	5 208.0	5 218.0	7 585.0	1 081.0	1 364.0	1 287.0	1 695.0
Marketings	3 333.1	2 306.0	2 647.2	3 942.0	977.0	1 217.2	1 266.6	1 587.7
Seed	212.8	227.6	218.4	220.0	8.2	7.6	8.0	8.0
Carryover	570.0	450.0	400.0	760.0	3.0	40.0	85.0	70.0
Feed, Waste and Dockage	2 539.1	2 224.0	1 952.4	2 663.0	-92.8	-99.4	-72.0	31.3
TOTAL DISPOTISION	6 655.0	5 208.0	5 218.0	7 585.0	1 081.0	1 364.0	1 287.0	1 695.0

[1] Alberta marketings are inflated as Saskatchewan canola is often delivered to Lloydminster, Alberta. This attributes to the negative F.W.D. value. To keep things positive one can work on assumption that F.W.D. is about 10-12% of deliveries.

Table 18
PRECIPITATION RECORDED AT SELECTED ALBERTA STATIONS

Stations	April 1 - October 31 Incl. 1986	1987	1987/Norm %
	- millimetres -		
Medicine Hat	463.0	213.9	83
Brooks	326.4	253.8	102
Lethbridge	284.1	306.1	97
Pincher Creek	435.7	347.5	89
Calgary	431.6	317.3	91
Coronation	361.6	305.7	93
Red Deer	543.9	333.3	88
Rocky Mtn House	533.9	379.5	86
Lloydminster	393.6	350.7	98
Vegreville	341.2	276.3	84
Edmonton	424.2	428.7	118
Whitecourt	558.7	404.4	95
Cold Lake	330.9	348.8	98
Fort McMurray	299.2	274.5	76
Grande Prairie	309.3	282.6	90
Peace River	219.8	294.5	106
High Level	247.1	374.1	122

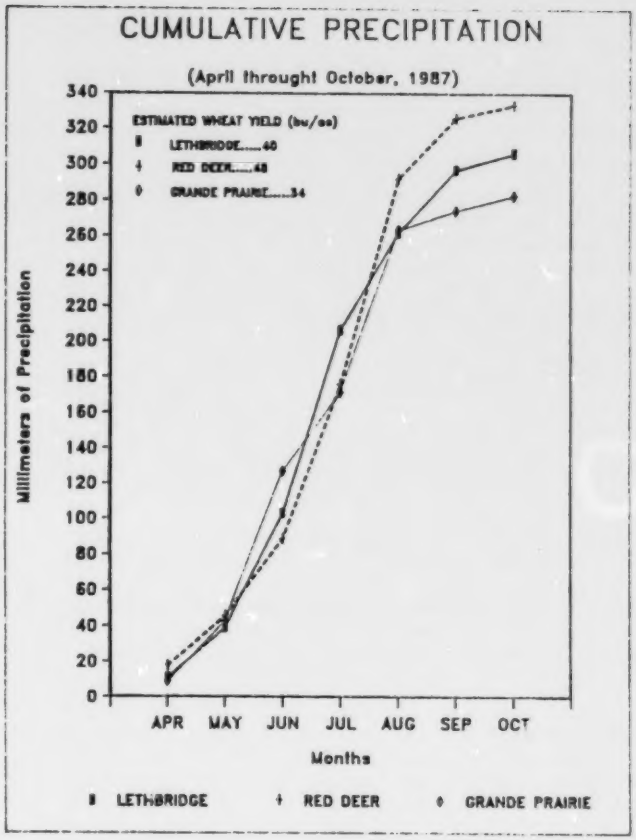


Table 19
WHEAT BOARD PAYMENTS, 1987-88

	Initial Payment - $/tonne -
WHEAT[1]	
No. 1 C.W. Red Spring (13.5)	108.58
No. 1 C.W. Red Spring	106.37
No. 2 C.W. Red Spring (13.5)	101.58
No. 2 C.W. Red Spring	100.58
No. 3 C.W. Red Spring	86.58
No. 1 Canada Prairie Spring (Red)	76.58
No. 2 Canada Prairie Spring (Red)	72.58
No. 1 Canada Utility	85.58
No. 2 Canada Utility	73.58
Canada Feed	66.37
No. 1 C.W. Red Winter	85.58
No. 2 C.W. Red Winter	73.58
No. 3 C.W. Red Winter	66.37
No. 1 C.W. Soft White Spring	86.37
No. 2 C.W. Soft White Spring	83.37
No. 3 C.W. Soft White Spring	72.37
No. 1 C.W. Amber Durum	111.37
No. 2 C.W. Amber Durum	108.37
No. 3 C.W. Amber Durum	106.37
OATS[2]	
No. 1 C.W.	78.29
No. 2 C.W.	76.29
Ex. No. 1 Feed	74.29
No. 1 Feed	72.29
No. 2 Feed	68.19
No. 3 Feed	65.19
DESIGNATED OATS[2]	
No. 1 C.W.	107.29
No. 2 C.W.	105.29
Ex. No. 1 Feed	103.29
No. 1 Feed	101.29
No. 2 Feed	97.29
BARLEY[3]	
No. 1 C.W.	49.60
No. 2 C.W.	46.60
DESIGNATED BARLEY[3]	
Special Select C.W. 2 - Row	119.60
Special Select C.W. 6 - Row	109.60
Select C.W. 2 - Row	114.60
Select C.W. 6 - Row	104.60
Sample Select C.W. 2 - Row	111.35
Sample Select C.W. 6 - Row	101.35

1 Deductions include freight at $5.71 per tonne (25.90 cents per cwt.) Calgary or Edmonton to Pacific Coast, estimated elevation charges of $6.25 per tonne and $1.67 per tonne for removal of dockage (Alberta Wheat Pool).

2 Deductions include freight at $5.71 per tonne (25.90 cents per cwt.) Calgary or Edmonton to Pacific Coast, estimated elevation charges of $9.30 per tonne and $2.70 per tonne for removal of dockage (Alberta Wheat Pool).

3 Deductions include freight at $5.71 per tonne (25.90 cents per cwt.) Calgary or Edmonton to Pacific Coast, estimated elevation charges of $7.80 per tonne and $1.89 per tonne for removal of dockage (Alberta Wheat Pool).

Table 20
WHEAT BOARD PAYMENTS, 1986-87

	Initial Payment	Adjust. Payment	Final Payment	Realized Payment
	- dollars per tonne -			
WHEAT[1]				
No. 1 C.W. R.S.(13.5)	118.88	-	1.32	120.20
No. 1 C.W. R.S.	116.67	-	-	116.67
No. 2 C.W. R.S.	110.88	-	-	110.88
No. 3 C.W. R.S.	96.88	-	-	96.88
No. 1 C.U.	90.88	-	2.49	93.87
No. 2 C.U.	78.88	-	1.32	80.20
Canada Feed	76.67	-	-	76.67
No. 1 C.W. R.W.	95.88	-	-	95.88
No. 2 C.W. R.W.	93.88	-	-	93.88
No. 3 C.W. R.W.	76.67	-	-	76.67
No. 1 C.W. S.W.S.	91.67	-	2.70	94.37
No. 2 C.W. S.W.S.	88.67	-	4.70	93.37
No. 3 C.W. S.W.S.	77.67	-	-	77.67
No. 1 C.W. A.D.	116.67	-	20.20	136.87
No. 2 C.W. A.D.	113.67	-	18.20	131.87
No. 3 C.W. A.D.	111.67	-	15.20	126.87
OATS[2]				
No. 1 C.W.	63.59	-	24.77	88.36
No. 2 C.W.	61.59	-	24.77	86.36
Ex. No. 1 Feed	59.59	-	20.62	80.21
No. 1 Feed	57.59	-	18.27	75.86
No. 2 Feed	53.51	-	19.35	72.86
No. 3 Feed	50.51	-	20.35	70.86
DESIGNATED OATS[2]				
No. 1 C.W.	112.59	-	2.58	115.17
No. 2 C.W.	110.59	-	2.58	113.17
Ex. No. 1 Feed	108.59	-	.63	109.22
No. 1 Feed	106.59	-	.63	107.22

	Initial Payment	Adjust. Payment	Final Payment	Realized Payment
	- dollars per tonne -			
BARLEY[3]				
No. 1 C.W. 6-Row	64.90	-	-	64.90
No. 2 C.W. 6-Row	61.90	-	-	61.90
No. 1 C.W. 2-Row	64.90	-	-	64.90
No. 2 C.W. 2-Row	61.90	-	-	61.90
DESIGNATED BARLEY[3]				
Spec. Sel. C.W. 6-Row	139.90	-	-	139.90
Spec. Sel. C.W. 2-Row	149.90	-	-	149.90
Select C.W. 6-Row	134.90	-	-	134.90
Select C.W. 2-Row	144.90	-	-	144.90

1 Deductions include freight at $5.38 per tonne (24.40 cents per cwt.) Calgary or Edmonton to Vancouver; estimated elevation charges of $6.08 per tonne and $1.67 per tonne for removal of dockage (Alberta Wheat Pool).

2 Deductions include freight at $5.38 per tonne (24.40 cents per cwt.) Calgary or Edmonton to Vancouver; estimated elevation charges of $9.05 per tonne and $2.70 per tonne for removal of dockage (Alberta Wheat Pool).

3 Deductions include freight at $5.38 per tonne (24.40 cents per cwt.) Calgary or Edmonton to Vancouver; estimated elevation charges of $7.59 per tonne and $1.89 per tonne for removal of dockage (Alberta Wheat Pool).

Table 21
AVERAGE MONTHLY CASH GRAIN PRICES, 1986-87

	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Year
	- dollars per tonne -												
WHEAT - Canadian Wheat Board Basis in Store Pacific Coast													
1 C.W. R.S. 13.5%	195.51	195.92	197.00	197.09	196.75	194.58	190.96	190.75	192.45	201.83	193.61	190.30	194.65
1 C.W. R.S. 12.5%	191.91	192.32	193.40	193.49	193.15	190.98	187.36	187.15	188.85	198.23	190.01	186.70	191.05
1 C.W. R.S. 11.5%	184.91	185.32	186.40	186.49	186.15	183.98	180.36	180.15	181.85	191.23	183.01	179.70	184.05
2 C.W. R.S. 13.5%	189.91	190.32	191.40	191.49	191.15	188.98	185.36	185.15	186.85	196.23	188.01	184.70	189.05
3 C.W. R.S. . . .	179.91	180.32	181.40	181.49	181.15	178.98	175.36	175.15	176.85	186.23	178.01	174.70	179.05
1 C.W. R.W. . . .	181.91	182.32	183.40	183.49	183.15	180.98	177.36	177.15	178.85	188.23	180.01	176.70	181.05
2 C.W. R.W. . . .	179.91	180.32	181.40	181.49	181.15	178.98	175.36	175.15	176.85	186.23	178.01	174.70	179.05
3 C.W. R.W. . . .	176.91	177.32	178.40	178.49	178.15	175.98	172.36	172.15	173.85	183.23	175.01	171.70	176.05
1 C.W. A.D. . . .	164.58	162.84	173.07	187.00	198.49	196.56	188.68	190.17	194.46	202.63	200.10	196.45	188.00
2 C.W. A.D. . . .	159.58	157.84	168.07	182.00	193.49	191.56	183.68	185.17	189.46	197.63	195.10	191.45	183.00
3 C.W. A.D. . . .	154.58	152.84	163.07	177.00	188.49	186.56	178.68	180.17	184.46	192.63	190.10	186.45	178.00
OATS - Domestic - Canadian Wheat Board Basis in Store Thunder Bay													
1 C.W.	141.50	141.50	141.50	141.50	141.50	141.50	141.50	141.50	141.50	141.50	141.50	141.50	141.50
2 C.W.	139.50	139.50	139.50	139.50	139.50	139.50	139.50	139.50	139.50	139.50	139.50	139.50	139.50
Ex. 1 Fd. . . .	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00
BARLEY - Canadian Wheat Board Basis in Store Thunder Bay													
Malting:													
Special Select 6-Row	210.00	210.00	210.00	210.00	210.00	210.00	210.00	210.00	210.00	210.00	210.00	210.00	210.00
Select 6-Row . .	208.05	207.50	207.50	207.50	207.50	207.50	207.50	207.50	207.50	207.50	207.50	207.50	207.54
Special Select 2-Row	223.70	216.00	216.00	216.00	216.00	216.00	216.00	216.00	216.00	216.00	216.00	216.00	216.61
Select 2-Row . .	221.73	213.50	213.50	213.50	213.50	213.50	213.50	213.50	213.50	213.50	213.50	213.50	214.15

	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Year
						- dollars per tonne -							
	OATS - Winnipeg Commodity Exchange Basis in Store Thunder Bay												
1 Feed	78.00	78.83	81.78	84.47	80.27	78.09	86.29	87.11	71.75	63.62	69.62	62.81	76.81
2 Feed	74.50	75.33	78.28	80.97	76.77	74.73	82.79	83.63	68.18	59.31	64.87	59.31	73.15
3 Feed	71.50	72.33	75.28	77.97	73.77	71.73	79.79	80.63	65.18	56.31	61.83	56.31	70.14
	BARLEY - Domestic - Winnipeg Commodity Exchange Basis in Store Thunder Bay												
1 C.W.	81.75	83.16	85.47	87.22	91.22	83.27	80.78	77.15	76.52	80.07	79.25	69.00	81.14
2 C.W.	79.55	79.69	83.20	86.17	90.22	82.27	79.78	76.15	75.52	79.07	78.25	68.00	79.72
	RYE - Winnipeg Commodity Exchange Basis in Store Thunder Bay												
1 C.W.	93.35	97.87	98.82	96.62	93.66	90.76	85.54	83.48	84.42	96.25	97.37	87.50	92.10
2 C.W.	91.35	95.87	96.82	94.62	91.66	88.76	83.54	81.48	82.42	94.25	95.37	85.50	90.10
3 C.W.	63.35	67.87	68.82	66.62	63.66	60.76	55.54	53.48	54.42	66.25	67.37	57.50	62.10
Ergoty	54.35	61.68	59.82	57.62	54.66	51.76	46.54	44.48	45.42	57.25	58.37	48.50	53.34
	FLAXSEED - Winnipeg Commodity Exchange Basis in Store Thunder Bay												
1 C.W.	231.82	234.98	230.72	225.34	210.53	205.07	191.46	184.76	194.72	204.70	205.83	200.25	209.83
2 C.W.	229.72	232.98	228.72	223.33	208.53	203.07	189.46	182.76	192.72	202.70	203.83	198.25	207.82
3 C.W.	204.72	199.98	195.72	190.34	175.53	170.07	156.46	149.76	159.72	169.70	170.83	165.25	175.46
	CANOLA/RAPESEED - Winnipeg Commodity Exchange Basis in Store Pacific Coast												
1 Canada	234.96	239.20	246.01	252.73	244.59	242.60	227.73	219.03	221.65	243.97	256.27	247.85	239.70
2 Canada	221.96	226.20	233.01	239.73	231.59	229.60	214.73	206.03	208.65	230.97	243.09	234.85	226.69

Table 22
NON-BOARD GRAIN PRICES, 1986-87

	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Year
	- dollars per tonne -												
LETHBRIDGE													
Wheat	104.72	89.95	91.97	83.96	80.58	80.58	78.63	77.02	79.00	79.37	81.57	78.45	83.82
Oats	107.51	82.48	83.52	81.05	82.54	79.63	79.11	76.25	77.62	79.76	80.14	77.81	82.29
Barley	72.48	66.32	70.50	69.81	70.73	69.49	68.90	67.79	69.35	73.86	79.00	76.61	71.24
CALGARY													
Wheat	113.25	101.19	92.96	79.00	76.68	76.43	76.06	75.99	75.69	75.33	77.97	75.80	83.03
Oats	101.93	84.81	79.95	74.76	72.82	72.82	71.33	71.33	71.65	73.92	72.75	72.49	76.71
Barley	82.77	73.67	70.18	64.53	63.84	64.76	65.36	65.68	68.30	70.64	72.20	71.56	69.46
RED DEER													
Wheat	112.66	97.45	90.50	79.48	77.05	76.79	75.07	73.49	72.02	73.97	77.16	75.51	81.76
Oats	88.83	69.12	69.90	66.98	66.79	65.68	64.19	63.67	64.19	63.22	64.06	63.22	67.49
Barley	86.35	68.80	66.37	66.37	65.82	65.59	64.30	63.38	62.83	65.68	68.21	68.21	67.66
VERMILION													
Barley	78.63	67.88	68.21	68.57	68.90	68.11	66.60	66.60	66.60	66.60	66.32	66.05	65.76
EDMONTON													
Wheat	116.07	107.07	99.39	85.98	83.78	82.86	81.13	78.04	78.15	78.74	81.42	81.20	87.82
Oats	87.02	84.04	77.36	71.84	72.17	74.11	71.52	72.10	71.65	71.65	71.37	71.84	74.72
Barley	83.32	73.58	70.41	68.80	70.27	69.81	68.80	67.43	68.57	70.50	70.92	71.42	71.15
PEACE RIVER													
Wheat	120.34	107.07	108.14	86.35	84.14	81.13	80.10	80.10	80.03	78.93	78.63	78.63	88.63
Oats	105.82	84.04	86.76	70.55	71.97	71.00	70.68	70.68	71.00	70.03	67.05	66.79	75.53
Barley	90.02	73.58	77.16	69.35	69.35	71.42	72.11	72.11	72.11	70.04	67.88	67.20	72.69

Table 23
ESTIMATED SUPPLIES ON FARMS

	1984-85	1985-86	1986-87
	- '000 tonnes -		
WHEAT			
Carryover	480	260	200
Production	4 858	4 844	7 348
Total Supplies . . .	5 338	5 104	7 548
OATS			
Carryover	200	180	170
Production	987	972	1 696
Total Supplies . . .	1 187	1 152	1 866
BARLEY			
Carryover	570	450	760
Production	4 638	4 768	7 446
Total Supplies . . .	5 208	5 218	8 206
RYE			
Carryover	30	35	60
Production	137	124	236
Total Supplies . . .	167	159	296
FLAXSEED			
Carryover	3	7	10
Production	31	28	51
Total Supplies . . .	34	35	61
CANOLA/RAPESEED			
Carryover	3	40	70
Production	1 366	1 247	1 656
Total Supplies . . .	1 341	1 287	1 726

Table 24
STOCKS OF GRAIN ON FARMS AT JULY 31

	Wheat	Oats	Barley	Rye	Flaxseed	Canola/ Rapeseed
	- '000 tonnes -					
1963	326	401	348	8	5	N
1964	544	586	544	13	5	/
1965	572	355	435	20	5	A
1966	626	386	435	25	10	
1967	1 089	463	675	18	10	9
1968	1 415	339	631	20	3	18
1969	2 313	447	1 393	25	5	4
1970	2 722	555	1 676	36	5	2
1971	1 851	478	631	46	53	2
1972	1 034	370	653	51	18	79
1973	544	339	827	18	3	2
1974	408	278	566	25	5	16
1975	354	231	479	36	13	34
1976	299	262	544	41	13	136
1977	1 334	308	631	25	5	11
1978	599	386	1 350	25	3	14
1979	1 361	355	1 393	97	5	91
1980	680	231	501	56	3	130
1981	355	230	610	20	10	170
1982	1 010	230	1 070	38	3	34
1983	500	350	1 560	60	8	15
1984	480	200	570	30	3	3
1985	260	180	450	35	7	40
1986	200	170	400	35	2	85
1987	950	500	760	60	10	70

Table 25
FORAGE SEED CROPS INSPECTED FOR PEDIGREE STATUS

	1986	1987
	- acres -	
Alfalfa	11,888	13,000
Alsike Clover	1,167	837
Altai Wild Ryegrass	265	230
Birdsfoot Trefoil	583	711
Bromegrass	4,150	5,296
Cicer Milkvetch	79	59
Creeping Red Fescue	5,282	4,561
Crested Wheatgrass	2,130	1,810
Orchardgrass	225	95
Red Clover (single cut)	437	858
Reed Canarygrass	25	125
Sainfoin	28	0
Timothy	6,103	5,508

Table 26
FORAGE SEED PRODUCTION COMMERCIAL AND PEDIGREE

	1986	1987
	- '000 kg -	
Alfalfa	1 750	1 250
Alsike Clover	2 000	2 000
Bromegrass	700	600
Creeping Red Fescue	4 000	4 000
Crested Wheatgrass	150	150
Red Clover (single cut)	1 500	1 100
Sweet Clover	200	200
Timothy	1 400	1 500

Table 27
PROCESSED ALFALFA PRODUCTION

	Total Production	Exports	Value F.O.B. Plant
	- tonnes -		$'000
1975-76	97 000	29 000	8,200
1976-77	130 000	83 000	12,000
1977-78	166 000	87 000	13,800
1978-79	164 000	114 000	13,600
1979-80	181 000	130 000	17,900
1980-81	139 000	80 000	18,500
1981-82	122 000	68 000	13,500
1982-83	132 000	94 000	16,800
1983-84	201 000	151 000	28,600
1984-85	229 000	165 000	32,800
1985-86	166 000	128 000	22,400
1986-87	253 000	207 000	31,000

Table 28
TAME HAY PRODUCTION

	Area	Yield Per Acre	Production
	'000 ac.	- kilograms -	'000 tonnes
1983	3,700	1 765	6 530
1984	3,900	1 630	6 350
1985	3,900	1 185	4 625
1986	4,000	1 978	7 893
1987	4,350	1 878	8 165

Table 29
FODDER CORN PRODUCTION

		1986	1987
Area	ac.	21,769	18,000
Yield	kg/ac.	12 704	12 611
Production	tonnes	276 553	227 000
Average Value	$/tonne	31.90	27.50

Table 30
DRY BEAN PRODUCTION

	Area	Yield Per Acre	Production
	acres	- kilograms -	tonnes
1983	2,830	742	2 100
1984	4,800	667	3 200
1985	7,550	615	4 650
1986	11,682	739	8 632
1987	20,608	694	14 306

Note: Dry bean yield and production data are on a cleaned or net basis.

Table 31
SUGAR BEET INDUSTRY

		1985*	1986	1987
Contracted	ac.	-	30,504	29,983
Planted	ac.	-	29,711	29,438
Harvested	ac.	-	28,493	29,169
Production	tonnes	-	596 122	564 814
Average Yield	kg/ac.	-	20 960	19 360
Market Price (beets)	$/tonne	-	21.82	-
Sugar Content	%	-	16.5	-
Sugar Produced	kg/tonne	-	111.0	135.6
Sugar Produced	kg/ac.	-	2 450	2 619

* No sugar beets were planted in 1985.

Table 32
COMMERCIAL VEGETABLE PRODUCTION

	Area		Production	
	1986	1987	1986	1987
	- acres -		- tonnes -	
Cabbage	779	1,025	7 917	6 996
Carrots	758	1,096	10 070	7 351
Corn, fresh	3,004	2,769	14 204	12 764
Cucumbers	275	248	929	384
Onions	187	275	1 612	2 441
Rutabagas	134	179	1 686	1 122
Potatoes	22,500	23,500	263 520	285 843

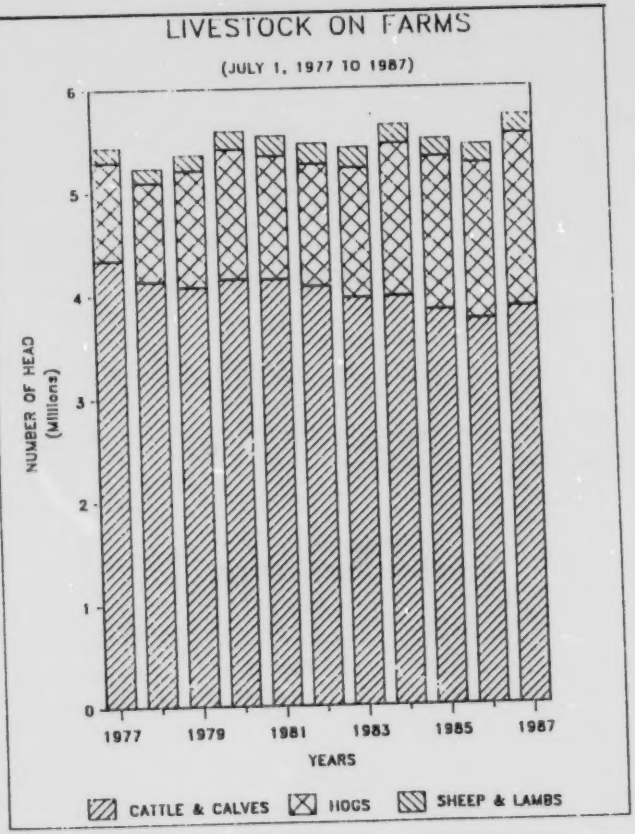
LIVESTOCK

The Alberta livestock industry, as indeed was the case throughout Canada, was characterized in 1987 by above average prices. Combined with abundant supplies of low-priced feed grains, this resulted in a generally profitable year for producers. Estimated farm cash receipts from livestock operations increased by about eight per cent over 1986 receipts.

The year saw record high cattle prices. Sheep and lamb prices also reached record levels while hog prices, strong since mid 1986, held for most of the year despite increased production. Undoubtedly, much of this market strength was due to the provincial government's Feed Grain Market Adjustment/Crow Benefit Offset programs whose effects on livestock prices remained considerable even though mid-year revisions had scaled down benefit payments to $13 from the original $21 per tonne of domestic feed grain utilized.

Major developments occurred in the meat packing industry, in consequence. Of note, Lakeside Packers began the expansion of its Brooks plant to increase the beef kill from 2,800 to 9,600 head per week. As well, Cargill Ltd. commenced construction of a new plant at High River with a planned kill capacity of 6,000 head of cattle per week.

Mild conditions during the 1986-87 winter season greatly reduced livestock feed requirements. This, along with more than adequate stocks of fodder and feed grains from the fall of 1986, created large feed surpluses at the approach of the 1987 Spring season. Hay prices were sharply down from a year earlier because of poor demand, and also poor quality. Few districts had any fodder or feed grain shortfalls to report at the termination of winter. Under these near-ideal circumstances, livestock emerged from the winter in generally excellent



condition. Mortality rates were low, as was the incidence of pneumonia and other diseases.

Spring weather arrived in March, permitting an early start to field operations. Above average precipitation had created very good soil moisture conditions in the fall of 1986. Thus, despite a sub-average snowfall, subsoil moisture levels were rated as good to excellent at winter's end. There were no winter kill problems in spite of a lack of snow cover. Alfalfa fields suffered very little damage and got off to an excellent start. Lice infestations, calving problems and calf scours were reported in a few districts.

The months of April, May and June were exceptionally dry. Total amounts of precipitation were only about one-third to one-half of normal during this period. Windy conditions prevailed in the Southern Region, with severe dust storms occurring in the Drumheller and Oyen areas. Pasture regeneration and forage growth were retarded in all regions except the North West.

A blizzard in the third week of May had served to replenish lowered soil moisture but subsequent dry weather continued well into June. By month's end pastures had deteriorated noticeably in most districts. Fortunately, timely rains in July and August significantly improved growing conditions and facilitated recovery, thereby averting a potentially serious feed shortage situation. Second cut hay production increased markedly, raising the overall provincial average yield for the year to 1.88 tonnes per acre, 6 per cent below the 1986 average but a lot higher than the long term average of 1.65 tonnes per acre.

Due to an expanded acreage, total hay production was a record 8.17 million tonnes, up more than three per cent from the 1986 production of 7.89 million tonnes. Fodder corn acreage declined almost 18 per cent to 18,000 acres, with total provincial production dropping by 100 000 tonnes from a year earlier to 227 000 tonnes. The combined total production of barley, oats, mixed grains and corn was 8.36 million tonnes, down five per cent from 1986.

Very few locations were in a post-harvest feed deficit position at Fall. Other than in areas along the Saskatchewan border in the North East, winter feed supplies were adequate to surplus in all districts. Livestock were in generally good to excellent condition going into winter.

Prices

Record and near-record level prices were a prominent feature of the livestock markets in 1987. Low feed grain prices and reduced feeder cattle supplies caused intense competition and, therefore, very strong feeder prices, particularly of higher weight categories. Increases in slaughter cattle prices, moderated by increased supplies of other meats, and also by the appreciation of the value of the Canadian dollar, were generally not as marked.

Live-weight A1, A2 slaughter steer prices at the Calgary stockyards began the year in the mid $70's, moved quickly upwards to peak at the mid $80's, then tailed off to the low $80's toward year's end. The annual average price of $81.60 per cwt. was about 13 per cent higher than the 1986 average, reversing a downward trend that began two years earlier. The Calgary price for feeder steers (900 lbs and over) averaged more than $10 per cwt. over 1986, having risen from $81.39 to $91.74 per cwt. In Edmonton, the annual average price for similar grade feeder steers rose by $11.55 to $88.42, per cwt.

After gaining considerable strength in the latter half of 1986, the prices of slaughter pigs remained extremely high for much of 1987, reaching the high $80's and low $90's during the summer

months. Overall, the average annual price of dressed index 100 hogs decreased only marginally, from $77.88 to $76.43, per cwt., between 1986 and 1987. Feeder hog prices generally showed moderate declines but the heavier weight categories lost a lot more ground than the lighter categories. For instance, the average price of feeders weighing over 100 lbs. decreased by $7.94 per cwt., compared with a decrease of $0.06 per cwt. in the price of feeders within the 30-40 lb. weight range.

Sheep and lamb prices have risen remarkably in recent years. Following record-setting prices in 1984 and 1985, and a very strong market in 1986, new all-time highs were attained in 1987. The average price of $88.64 per cwt. for A,B (80+ lbs) lambs in Edmonton exceeded the previous record price attained in 1985 by $7.92 per cwt. Sheep (D1,2) and feeder lamb prices, for the second successive year, rose to record highs, of $55.54 and $104.83 per cwt., respectively.

Marketings

For the fifth straight year, the number of cattle and calves of Alberta origin marketed for slaughter declined. At 1,172,747 head, 1987 marketings were about two per cent lower than 1986 marketings, and 13 per cent below the recent peak of 1,350,418 head marketed in 1982. Total steer and heifer marketings decreased from a 1986 count of 1,004,307 to 989,080. As would be expected during an expansion phase of the cattle cycle, the proportion of female marketings to total cattle marketings dropped, from 47.7 per cent in 1986 to 44.4 per cent in 1987.

Cattle and calf slaughter in federally and provincially inspected packing plants increased by 9,148 head, or slightly below one per cent, from 1986, to 1,158,261 head. This rise, along with an overall increase in carcass weight, raised the output of beef and veal by about three per cent above the 1986 output (722.7 million pounds compared to 703.6 million pounds, on a cold, dressed basis).

Slaughter hog marketing and kill volumes in Alberta have been consistently high during the present decade. In 1987, marketings totalled 1,944,271 head, up by 101,092 head from 1986. Total inspected slaughter was 1,761,247 head, an increase of 15 per cent from 1986. Estimated pork production (cold dressed weight basis) rose to 241.4 million pounds from 209.4 million pounds in 1986.

Sheep and lamb marketings were down by 17 per cent from 1986, to 57,436 head. Inspected slaughter totalled 69,892 head, down from 82,411 head in 1986. Estimated cold carcass lamb and mutton production was 3.5 million pounds, compared with 4.1 million pounds a year earlier.

Numbers

Alberta's estimated total cattle and calf inventory as at July 1, 1987 was 3,860,000 head, up three per cent from a year earlier. This increase signalled the end of the rather protracted contraction phase of the latest cattle cycle which had peaked seven years earlier, in 1980 at an estimated 4,155,000 head and bottomed out in 1986 at 3,746,000 head.

The July 1, 1987 provincial pig population was 1,670,000 head, up almost 11 per cent from July 1, 1986. The female breeding herd rose by a similar margin to an estimated 175,000 head while the number of feeder and market pigs totalled 1,483,000 head, up from 1,338,000 head the previous year.

The most recent cyclical contraction phase in the provincial sheep and lamb population ended in 1985 at 175,000 head. Estimates have since revealed increases of five and six per cent in 1986 and 1987, respectively. The July 1, 1987 total inventory was 194,000 head.

Table 33
COWS BRED BY ARTIFICIAL INSEMINATION

Breed of Sire	1986[r] Total Cows	1987 Total Cows
Ayrshire	338	110
Brown Swiss	38	138
Guernsey	85	48
Holstein-Friesian	11,736	6,492
Jersey	851	360
Other	3	0
Total Dairy	13,051	7,148
Aberdeen Angus (Black)	870	563
Aberdeen Angus (Red)	65	382
Blonde d'Aquitaine	3	15
Charolais	528	787
Gelbvieh	44	90
Hays Converter	0	6
Hereford	1,906	1,484
Limousin	236	225
Maine Anjou	73	142
Murray Grey	19	4
Pinzgauer	15	59
Salers	193	297
Shorthorn	97	50
Simmental	616	576
Other	1,822	575
Total Beef	6,487	5,255
Grand Total	19,538	12,403

Note: These totals do not include semen sold directly to owner - inseminators or semen purchased and resold.

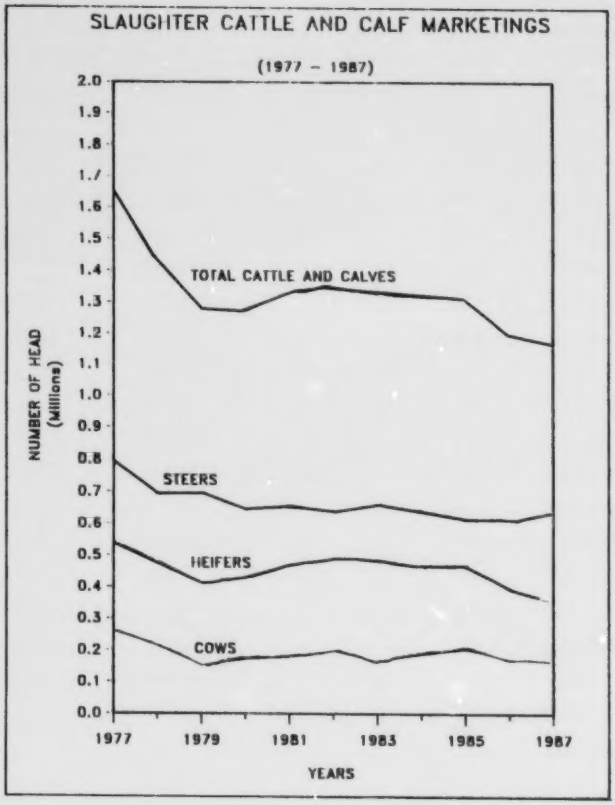


Table 34
CATTLE AND CALVES ON FARMS, JULY 1

Census Division	Bulls	Milk Cows	Dairy Heifers	Beef Cows	Beef Heifers For Breeding	Calves	Heifers For Slaughter	Steers	Total	1987 as % 1986
	1986[r]									
	- thousands -									
1	4.0	2.6	1.2	63.0	12.0	60.0	9.8	14.5	167.1	105.3
2	6.0	14.4	6.2	92.5	13.7	90.6	52.5	82.4	358.3	103.6
3	5.7	6.7	2.7	92.0	17.3	87.8	20.9	26.0	259.1	104.5
4	5.6	1.3	0.5	100.0	18.2	92.0	11.5	16.7	245.8	99.0
5	4.9	3.8	1.2	62.0	8.7	59.0	17.5	32.0	189.1	103.4
6 & 15	8.1	8.9	4.0	121.0	21.2	115.5	26.0	30.3	335.0	96.5
7	7.6	5.1	1.7	120.0	20.3	114.2	18.9	39.2	327.0	103.9
8 & 9	8.2	19.5	7.9	142.0	24.5	142.0	32.4	52.9	429.4	100.7
10	7.9	11.8	4.1	125.0	21.4	117.5	14.4	36.5	338.6	105.1
11	6.3	27.9	12.9	102.0	22.0	103.6	16.5	28.4	319.6	105.6
12 & 16	3.8	4.5	1.4	73.0	12.0	65.0	7.0	14.0	180.7	97.6
13	6.5	11.7	4.8	130.0	23.0	122.0	17.6	33.6	349.2	98.1
14	1.1	1.4	0.6	18.5	3.4	16.2	4.5	5.5	51.2	107.0
17, 18, 19	4.3	4.4	1.8	74.0	14.3	66.6	5.5	14.0	184.9	97.7
Province	80.0	124.0	51.0	1,315.0	232.0	1,252.0	255.0	426.0	3,735.0	101.7

Revised

1987

Census Division	Bulls	Milk Cows	Dairy Heifers	Beef Cows	Beef Heifers For Breeding	Calves	Heifers For Slaughter	Steers	Total
					- thousands -				
1	4.1	2.5	1.3	65.0	12.8	63.0	11.3	16.0	176.0
2	5.7	15.2	6.8	92.5	14.2	90.5	56.2	90.0	371.1
3	5.6	6.1	2.5	95.0	18.4	91.0	22.6	29.6	270.8
4	5.7	1.4	0.5	100.0	19.0	92.0	10.8	14.0	243.4
5	4.9	4.2	1.4	63.0	9.5	60.0	19.3	33.3	195.6
6 & 15	8.0	7.9	4.0	114.0	21.1	111.0	26.0	31.2	323.2
7	8.0	5.1	2.0	124.5	19.4	119.0	20.0	41.8	339.8
8 & 9	8.1	18.6	7.7	145.0	24.8	142.5	35.0	50.6	432.3
10	7.5	13.7	4.7	128.5	22.8	123.0	18.0	37.5	355.8
11	6.6	31.0	13.6	105.0	25.0	108.0	17.5	31.0	337.6
12 & 16	3.8	3.9	1.3	70.0	12.8	62.0	7.3	15.2	176.3
13	6.5	10.1	4.8	132.0	22.5	125.0	15.0	26.8	342.7
14	1.1	1.3	0.6	19.5	3.7	17.0	5.4	6.2	54.8
17, 18, 19	4.4	4.0	1.8	71.0	16.0	66.0	5.6	11.8	180.6
Province	80.0	125.0	53.0	1,325.0	242.0	1,270.0	270.0	435.0	3,800.0

Table 35
SLAUGHTER CATTLE AND CALF MARKETINGS

1986

Month	Steers	Heifers	Cows	Bulls	Total Cattle	Calves	Total Cattle & Calves
			- number of head -				
Jan	42,053	33,319	22,144	632	98,148	533	98,681
Feb	46,381	37,912	19,516	615	104,424	539	104,963
Mar	55,884	39,751	15,085	754	111,474	573	112,047
Apr	46,148	36,889	10,756	680	94,473	668	95,141
May	50,832	36,412	10,149	712	98,105	461	98,566
Jun	68,660	36,013	12,724	761	118,158	572	118,730
Jul	50,970	27,241	10,262	795	89,268	480	89,748
Aug	49,291	25,675	9,378	681	85,025	443	85,468
Sep	60,700	30,899	12,958	1,125	105,682	690	106,372
Oct	43,455	19,603	10,440	728	74,226	604	74,830
Nov	38,511	29,761	16,347	836	85,455	629	86,084
Dec	58,095	39,852	23,451	1,193	122,591	754	123,345
Total	610,980	393,327	173,210	9,512	1,187,029	6,946	1,193,975

Note: These data represent cattle and calves of Alberta origin slaughtered within and outside Alberta.

1987

Month	Steers	Heifers	Cows	Bulls	Total Cattle	Calves	Total Cattle & Calves
			- number of head -				
Jan	42,528	31,295	15,359	646	89,828	452	90,280
Feb	44,118	31,654	17,688	815	94,275	682	94,957
Mar	54,176	35,694	14,524	798	105,192	652	105,844
Apr	44,938	28,244	11,108	735	85,025	518	85,543
May	55,993	26,375	10,462	738	93,568	472	94,040
Jun	64,401	32,827	16,395	1,050	114,673	578	115,251
Jul	55,966	26,966	10,443	898	94,273	426	94,699
Aug	56,961	26,857	9,021	897	93,736	394	94,130
Sep	65,995	34,038	12,435	968	113,436	729	114,165
Oct	50,320	21,283	14,767	777	87,147	639	87,786
Nov	50,594	28,030	16,762	753	96,139	627	96,766
Dec	48,987	30,840	18,048	704	98,579	707	99,286
Total	634,977	354,103	167,012	9,779	1,165,871	6,876	1,172,747

Note: These data represent cattle and calves of Alberta origin slaughtered within and outside Alberta.

Table 36
AVERAGE MONTHLY CATTLE PRICES, EDMONTON

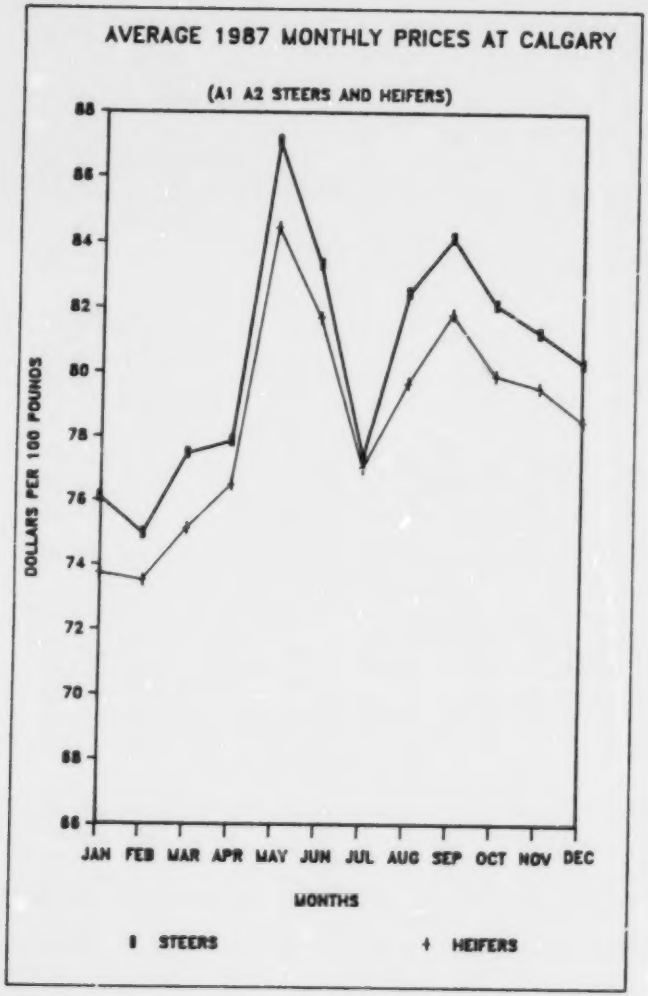
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per 100 pounds -												
	1986												
Slaughter Cattle													
Steers													
A1,2 1000 lbs+ . .	73.42	70.58	70.53	68.45	69.98	70.77	72.78	73.13	76.97	75.15	75.60	75.73	72.47
A1,2 -1000 lbs . .	-	-	-	-	68.07	-	-	-	-	-	-	-	68.07
A3,4	-	-	-	-	-	-	-	-	-	-	-	-	-
B & C.	60.34	54.36	60.52	58.50	58.26	60.19	62.23	62.70	67.97	67.33	67.21	65.00	61.48
Heifers													
A1,2 850 lbs+. . .	68.75	69.07	66.40	65.05	66.83	68.98	71.15	72.22	75.70	74.11	73.05	71.38	69.89
A1,2 -850 lbs. . .	-	-	-	64.72	66.00	67.00	-	-	-	-	-	-	65.90
A3,4	-	-	-	-	-	-	-	-	-	-	-	-	-
B & C.	55.23	55.18	55.77	54.95	54.22	54.18	56.94	56.14	58.95	55.53	61.92	61.18	56.37
Cows													
D1,2	44.19	47.81	50.11	47.02	46.34	47.05	49.50	51.26	51.30	46.32	46.85	46.76	47.79
D3,5	40.18	42.41	45.44	41.14	42.21	41.55	43.95	45.94	46.16	42.44	42.55	42.44	43.23
D4	39.46	42.80	41.49	39.54	37.71	39.45	41.50	44.81	44.19	38.45	38.77	42.72	40.73
Bulls	56.59	59.04	61.54	59.21	59.48	61.21	62.75	60.84	58.73	56.17	54.31	54.23	58.35
Feeders													
Steers Graded													
900 lbs+	75.99	76.44	75.24	71.78	72.71	71.65	74.60	79.34	81.41	79.55	80.99	81.33	76.87
800-900 lbs. . . .	79.16	80.34	77.83	75.13	77.74	77.40	78.55	84.05	85.31	85.55	86.00	86.66	80.88
700-800 lbs. . . .	80.13	82.62	80.15	77.62	79.53	80.47	86.29	87.98	89.99	87.60	87.23	89.98	82.84
600-700 lbs. . . .	83.42	83.60	82.35	80.73	83.74	86.37	91.19	88.97	90.52	97.26	92.68	92.65	87.94
Off Type 600 lbs+ .	66.31	67.24	64.45	64.80	64.86	66.03	73.51	77.46	77.63	74.31	72.96	66.08	67.80
Heifers Graded													
800 lbs+	70.22	70.91	68.78	68.51	70.19	69.35	73.05	77.31	78.13	77.08	75.24	71.91	73.62
700-800 lbs. . . .	73.17	74.42	71.75	71.78	71.42	72.48	74.57	78.98	80.59	78.84	78.00	75.08	75.39
600-700 lbs. . . .	75.04	75.09	74.40	74.02	74.44	76.96	82.66	82.56	82.21	84.46	81.00	82.90	77.33
500-600 lbs. . . .	76.19	77.40	76.97	75.49	77.14	79.92	84.00	87.48	82.36	93.95	89.54	89.10	83.78
Off Type 600 lbs+ .	59.86	62.56	63.79	61.40	64.40	62.37	66.42	73.02	73.14	68.54	69.33	63.26	64.45
Cows	44.75	46.01	47.61	46.70	48.92	46.28	52.46	52.57	51.35	50.93	47.65	49.66	48.04

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
				- dollars per 100 pounds -									
						1987							
Slaughter Cattle													
Steers													
A1,2 1000 lbs+ . .	75.22	77.84	79.02	79.23	85.28	83.57	79.71	79.16	80.78	81.00	-	-	80.82
A1,2 -1000 lbs . .	-	-	-	-	-	-	72.00	-	-	-	-	-	72.00
A3,4	-	75.28	-	-	-	-	-	-	-	-	-	-	75.28
B & C.	55.00	54.00	68.00	-	-	68.41	65.31	68.31	75.79	63.75	-	-	67.18
Heifers													
A1,2 850 lbs+. . .	72.66	73.41	74.39	76.55	81.63	80.08	76.50	80.00	78.01	76.00	-	76.00	77.31
A1,2 -850 lbs. . .	-	-	-	-	-	-	-	-	-	-	-	-	-
A3,4	-	68.93	-	-	-	-	-	-	-	-	-	-	68.93
B & C.	57.04	53.08	67.00	68.80	73.14	57.44	60.27	69.48	68.74	60.25	-	70.00	65.65
Cows													
D1,2	59.38	53.88	54.91	55.11	55.54	56.73	57.18	58.46	58.12	53.63	51.11	54.69	54.55
D3	44.21	48.54	49.43	46.84	50.11	50.87	50.78	53.42	54.32	48.92	45.12	48.07	49.28
D4	43.55	45.07	46.39	45.83	49.13	49.49	50.09	50.30	49.87	47.50	46.54	43.46	47.30
Bulls	60.85	62.20	67.14	68.78	68.78	73.18	71.09	69.20	70.83	68.20	68.51	70.54	69.04
Feeders													
Steers Graded													
900 lbs+	83.56	84.96	85.12	86.21	87.24	89.58	86.21	93.26	92.48	84.81	87.71	92.89	88.42
800-900 lbs. . . .	89.48	90.70	90.79	91.71	94.87	95.72	96.19	100.41	101.61	99.27	91.38	93.99	94.90
700-800 lbs. . . .	92.97	95.03	97.02	98.74	101.97	101.25	99.57	104.62	107.13	104.64	102.94	103.33	99.53
600-700 lbs. . . .	99.27	102.19	102.53	104.30	110.15	105.80	108.37	108.32	114.52	113.07	103.18	107.75	105.94
Off Type 600 lbs+.	73.33	75.91	79.52	79.97	81.90	80.76	86.51	87.15	91.03	76.49	79.00	70.43	82.23
Heifers Graded													
800+ lbs	75.68	81.31	83.84	80.50	87.08	84.94	80.46	88.24	85.21	81.74	82.13	83.85	83.16
700-800 lbs. . . .	80.30	89.07	89.31	86.76	93.47	90.92	90.70	92.88	96.11	87.81	83.38	87.56	89.09
600-700 lbs. . . .	84.75	91.78	94.55	92.93	95.43	95.54	97.27	97.16	97.78	100.94	98.48	102.62	95.33
500-600 lbs. . . .	94.20	96.74	98.35	97.97	103.27	104.44	103.33	102.70	107.27	106.80	105.26	105.94	102.06
Off Type 500 lbs+.	69.72	74.66	79.01	74.85	80.00	79.16	78.39	77.70	79.78	74.16	-	80.38	77.16
Cows	50.19	51.67	56.91	52.87	56.55	54.95	55.36	62.34	61.58	59.09	56.51	56.53	55.88

Table 37
AVERAGE MONTHLY CATTLE PRICES, CALGARY

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per 100 pounds -												
	1986												
Slaughter Cattle													
Steers													
A1,2 1000 lbs+ . .	68.80	71.50	71.60	70.91	69.10	68.27	72.54	75.27	76.98	79.74	79.89	78.00	72.22
A1,2 -1000 lbs . .	-	-	-	-	-	-	-	-	69.75	79.35	78.00	-	72.84
A3,4	65.50	65.40	68.64	67.35	65.42	65.55	69.28	72.67	76.56	75.24	75.17	75.25	70.17
B & C.	60.50	63.98	63.47	61.40	63.32	61.18	60.00	67.17	71.94	65.62	69.79	67.51	64.26
Heifers													
A1,2 850 lbs+. . .	67.74	68.20	68.03	65.78	66.82	66.34	72.53	74.93	74.44	78.97	76.26	75.50	70.11
A1,2 -850 lbs. . .	-	67.25	-	-	-	-	70.00	-	-	77.00	-	-	72.81
A3,4	65.50	63.38	64.57	63.31	65.50	63.10	68.00	68.50	67.88	73.84	73.88	73.70	67.88
B & C.	58.58	58.95	60.45	55.72	53.71	54.13	62.42	61.15	57.11	60.79	58.44	61.05	58.72
Cows													
D1,2	45.53	50.29	53.55	48.18	51.32	49.19	51.80	52.23	51.70	50.38	48.66	49.68	50.01
D3,5	39.78	46.01	49.15	45.50	45.02	43.96	47.44	46.84	46.82	44.15	41.07	43.10	44.41
D4	37.25	41.50	47.05	38.13	50.50	41.00	50.00	42.00	40.00	-	36.33	40.24	41.33
Bulls	56.36	61.54	62.81	60.54	60.42	59.75	62.38	61.38	60.17	57.02	55.80	57.44	59.52
Feeders													
Steers Graded													
900 lbs+	80.81	82.00	-	74.84	74.67	77.91	79.88	80.26	84.72	80.61	79.83	81.77	81.39
800-900 lbs. . . .	79.14	81.05	77.98	76.76	77.89	79.37	82.41	86.07	88.95	87.28	87.12	84.27	85.86
700-800 lbs. . . .	83.35	84.31	80.52	76.98	80.37	83.00	86.29	87.98	89.99	93.76	92.09	92.70	87.05
600-700 lbs. . . .	84.03	85.97	81.08	78.79	83.68	88.79	91.19	88.97	90.52	102.98	98.75	97.21	96.94
Off Type 600 lbs+ .	75.82	77.20	73.49	71.17	70.85	75.91	73.51	77.46	77.63	82.39	79.99	82.44	77.05
Heifers Graded													
800 lbs+	74.44	73.00	-	-	68.87	79.23	75.55	78.56	81.67	80.19	80.72	79.61	79.69
700-800 lbs. . . .	74.60	74.65	73.89	71.00	74.65	77.97	77.26	80.19	82.93	83.24	82.55	84.20	80.66
600-700 lbs. . . .	76.98	77.40	74.80	89.50	93.24	91.30	82.66	82.56	82.21	92.51	91.52	90.55	82.18
500-600 lbs. . . .	76.24	79.26	74.67	92.25	-	95.00	84.00	87.48	82.36	102.80	93.64	97.72	94.32
Off Type 600 lbs+ .	68.65	69.03	68.54	77.50	80.11	81.54	66.42	73.02	73.14	78.49	76.90	78.08	74.43
Cows	49.26	54.40	53.54	52.25	52.69	51.61	52.46	52.57	51.35	52.15	49.93	50.24	51.08

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
					- dollars per 100 pounds -								
					1987								
Slaughter Cattle													
Steers													
A1,2 1000 lbs+ . .	76.12	74.99	77.49	83.78	87.11	83.35	77.45	82.49	84.18	82.13	81.26	80.33	81.60
A1,2 -1000 lbs . .	-	-	-	80.75	-	83.50	-	-	-	-	-	82.00	81.88
A3,4	73.64	72.00	73.67	82.71	84.30	80.25	-	-	80.06	81.00	79.00	-	79.91
B & C.	65.63	64.44	70.30	74.21	70.94	73.82	70.05	75.06	71.95	65.15	70.48	72.89	70.31
Heifers													
A1,2 850 lbs+. . .	73.75	73.51	75.13	82.38	84.46	81.70	77.04	79.68	81.82	79.93	79.56	78.50	80.00
A1,2 -850 lbs. . .	-	-	-	-	85.75	-	-	-	-	-	80.75	79.00	80.70
A3,4	71.49	71.00	71.14	77.00	81.83	78.00	-	76.50	72.50	79.00	76.14	78.00	74.35
B & C.	60.06	63.67	63.84	63.07	64.67	66.73	72.41	66.14	66.28	71.28	66.59	66.20	65.91
Cows													
D1,2	52.68	54.64	57.95	57.10	58.48	59.62	60.69	60.44	61.04	54.53	55.09	57.52	57.07
D3	47.68	49.94	52.48	52.46	53.89	55.27	52.99	55.25	55.22	48.95	48.23	52.95	51.58
D4	45.11	46.75	46.83	-	49.25	-	-	-	53.25	41.75	-	-	45.22
Bulls	60.87	67.90	68.23	70.23	71.80	71.63	70.65	71.25	71.75	66.74	67.51	70.02	69.20
Feeders													
Steers Graded													
900 lbs+	84.10	83.48	89.00	85.05	89.16	87.58	87.68	90.48	95.82	88.99	85.67	86.54	91.74
800-900 lbs. . . .	88.71	89.95	93.69	95.86	97.03	94.44	93.25	100.50	100.11	95.57	96.43	91.00	96.47
700-800 lbs. . . .	95.72	95.68	96.96	102.64	99.45	100.23	104.96	106.11	106.77	105.20	103.79	105.24	101.91
600-700 lbs. . . .	102.62	98.95	106.40	106.93	109.49	106.79	105.50	112.69	115.89	113.82	112.11	110.93	111.06
Off Type 600 lbs+ .	83.93	84.32	87.16	84.52	89.19	83.54	84.32	83.69	86.87	87.53	85.87	83.15	85.73
Heifers Graded													
800 lbs+	81.59	84.11	85.16	84.95	85.40	84.85	85.20	91.29	93.11	88.56	88.27	85.09	88.75
700-800 lbs. . . .	86.94	90.29	91.43	91.44	90.41	88.61	91.00	96.50	97.90	91.53	93.09	94.75	94.43
600-700 lbs. . . .	98.35	96.10	95.73	98.81	98.72	96.39	98.63	100.01	97.98	101.88	103.63	105.37	99.42
500-600 lbs. . . .	100.58	100.61	103.08	103.10	105.93	99.36	103.71	103.00	114.95	107.00	104.12	105.20	105.37
Off Type 500 lbs+ .	82.51	80.73	85.14	80.41	83.17	78.10	81.52	83.07	87.53	85.78	84.50	77.40	83.39
Cows	53.66	53.17	54.58	56.80	57.13	59.03	62.13	60.38	60.51	55.75	53.68	58.90	56.59


AVERAGE 1987 MONTHLY PRICES AT CALGARY
(A1 A2 STEERS AND HEIFERS)
DOLLARS PER 100 POUNDS
88
86
84
82
80
78
76
74
72
70
68
66
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
MONTHS
STEERS
HEIFERS

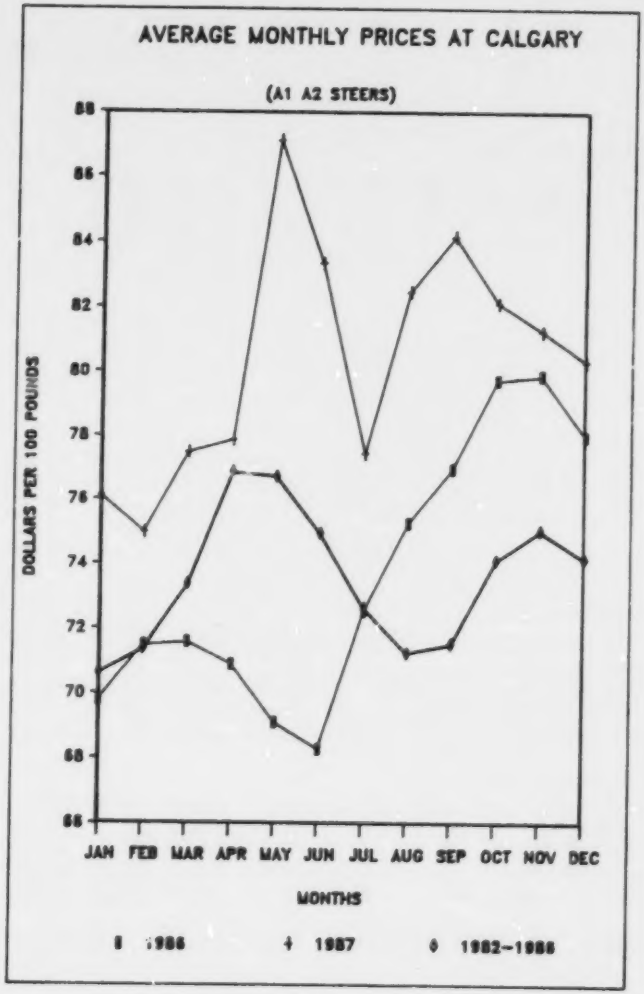

AVERAGE MONTHLY PRICES AT CALGARY
(A1 A2 STEERS)
DOLLARS PER 100 POUNDS
88
86
84
82
80
78
76
74
72
70
68
66
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
MONTHS
1988
1987
1982-1988

Table 38
AVERAGE MONTHLY CALF PRICES, CALGARY

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
					- dollars per 100 pounds -								
					1986								
Slaughter													
Good Veal	-	-	-	-	-	-	-	-	-	-	-	-	-
Good Butcher	-	-	-	-	-	-	-	-	-	-	-	-	-
Common all wts . . .	-	47.00	-	-	-	-	-	-	-	52.00	-	57.50	53.50
Feeders													
Steer Calves Graded													
500-600 lbs	85.25	88.34	84.92	89.12	88.34	91.44	96.50	95.63	104.98	107.05	104.77	102.66	101.71
400-500 lbs	90.11	92.63	87.19	89.50	93.24	91.30	96.67	111.25	110.26	108.06	106.99	106.41	105.71
-400 lbs	90.86	92.00	93.00	92.25	0.00	95.00	112.00	115.52	116.91	110.90	109.98	111.77	111.78
Off Type -600 lbs. .	77.60	79.48	75.60	77.50	80.11	81.54	72.57	89.56	92.15	97.02	91.74	93.33	91.31
Heifer Calves Graded													
400-500 lbs	79.52	79.53	78.86	79.18	81.11	83.81	88.61	92.61	100.35	101.51	98.92	98.78	95.20
300-400 lbs	79.46	80.48	85.42	81.95	79.50	87.86	88.79	103.86	107.94	103.83	102.05	104.84	101.12
-300 lbs	77.50	88.50	0.00	88.00	0.00	89.00	0.00	112.39	117.18	103.48	103.00	107.78	107.13
Off Type -500 lbs .	72.32	72.27	69.42	71.50	74.60	73.46	74.22	88.00	89.82	87.13	86.03	87.82	84.74
					1987								
Slaughter													
Good Veal	-	-	-	-	-	-	-	-	-	-	-	-	-
Good Butcher	-	-	-	-	-	-	-	-	-	-	-	-	-
Common all wts . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Feeders													
Steer Calves Graded													
500-600 lbs	110.83	105.95	112.23	115.87	112.99	109.00	109.25	121.93	124.53	117.94	116.25	121.24	117.03
400-500 lbs	117.16	117.40	117.11	121.59	120.18	117.95	122.21	139.52	130.21	123.55	122.87	127.11	123.96
-400 lbs	119.67	119.97	127.26	120.75	121.50	118.33	129.71	143.40	139.85	136.11	129.43	126.13	135.34
Off Type -600 lbs .	103.30	102.99	100.34	99.44	96.48	97.40	96.29	102.64	100.39	103.12	105.26	103.83	101.99
Heifer Calves Graded													
400-500 lbs	103.66	105.96	107.21	108.99	113.68	107.42	105.96	123.44	121.96	111.58	113.68	115.08	111.95
300-400 lbs	111.96	119.31	118.46	120.80	120.50	115.75	108.00	132.52	126.25	116.27	117.06	120.23	120.09
-300 lbs	128.50	-	133.00	-	-	137.00	126.33	136.11	130.84	128.40	129.29	136.83	130.73
Off Type -500 lbs .	94.78	92.36	97.54	92.90	96.91	90.71	96.83	103.26	99.73	96.06	98.25	100.78	96.75

Table 39
AVERAGE MONTHLY CALF PRICES, EDMONTON

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
					- dollars per 100 pounds -								
					1986								
Slaughter													
Good Veal	-	-	-	-	-	-	-	-	-	-	-	-	-
Good Butcher	-	-	-	-	-	-	-	-	-	-	-	-	-
Common all wts . . .	56.63	57.94	57.23	52.33	60.86	60.10	54.45	97.22	-	88.00	68.85	74.00	64.72
Feeders													
Steer Calves Graded													
500-600 lbs	85.59	87.84	89.06	87.10	89.69	92.20	91.80	98.08	102.37	102.35	101.09	97.90	97.21
400-500 lbs	88.24	90.34	93.68	90.13	92.20	93.41	95.44	102.09	106.63	104.95	104.30	102.07	102.29
-400 lbs	90.21	92.93	96.75	93.43	94.41	95.07	100.40	106.19	113.34	110.39	108.73	106.46	107.94
Off Type -600 lbs .	72.67	74.59	77.72	75.48	72.37	72.61	76.55	78.96	81.86	82.57	84.61	72.70	78.81
Heifer Calves Graded													
400-500 lbs	76.94	77.67	78.23	78.85	79.04	79.96	80.76	93.47	99.11	96.68	93.96	93.31	91.48
300-400 lbs	77.56	77.95	79.39	79.25	82.93	85.29	90.58	99.89	104.87	100.89	97.64	96.55	97.28
-300 lbs	79.00	-	89.50	-	-	-	85.50	112.00	104.33	98.46	99.89	95.30	98.09
Off Type -500 lbs. .	66.49	65.59	42.02	66.67	69.69	68.90	64.94	71.17	71.04	74.65	80.98	70.87	70.69
					1987								
Slaughter													
Good Veal	-	-	-	-	-	-	-	-	-	-	-	-	-
Good Butcher	-	-	-	-	-	-	-	-	-	-	-	-	-
Common all wts . . .	110.00	-	-	-	-	-	130.65	-	-	-	-	-	127.80
Feeders													
Steer Calves Graded													
500-600 lbs	107.28	108.04	110.97	112.92	115.76	114.56	112.02	119.14	124.86	119.53	121.67	120.75	116.24
400-500 lbs	113.08	117.42	117.39	113.07	119.08	116.85	117.32	134.83	131.54	127.40	129.24	124.86	123.83
-400 lbs	116.40	115.78	118.49	116.15	119.76	125.03	137.21	138.63	145.23	131.33	133.44	130.90	131.34
Off Type -600 lbs .	81.18	80.63	102.59	100.26	81.00	90.00	93.92	97.65	102.34	89.00	77.00	85.00	94.00
Heifer Calves Graded													
400-500 lbs	100.35	103.60	103.52	103.08	105.77	106.62	109.03	112.50	118.00	109.57	108.83	109.03	108.48
300-400 lbs	101.56	109.42	109.87	105.87	105.99	114.72	120.00	120.21	127.27	113.77	121.72	116.40	115.98
-300 lbs	108.00	114.00	-	-	-	113.00	-	110.00	140.90	123.83	122.29	134.00	127.42
Off Type -500 lbs .	75.42	88.89	-	-	-	86.01	86.78	94.51	91.60	85.00	-	-	87.32

Table 40
BRAND INSPECTION RECORD OF LIVE CATTLE AND CALF SHIPMENTS OUT-OF-PROVINCE

	British Columbia	Saskatchewan	Manitoba	Ontario	Quebec	Maritimes	U.S.A.	Other	Total
				- number -					
				1986					
Feeders									
Bulls	156	890	38	33	7	0	76	0	1,200
Cows	148	620	0	357	0	0	13	0	1,138
Heifers	1,150	4,666	0	38,379	61	3	1,002	0	45,261
Steers	2,019	6,909	152	43,207	5,156	0	1,874	0	59,317
Calves	51	1,815	0	22,511	529	0	32	0	24,938
Yearlings	44	720	56	2,525	0	0	67	0	3,412
Total	3,568	15,620	246	107,012	5,753	3	3,063	0	135,266
Slaughter									
Bulls	3,462	4,742	173	1,261	0	0	3,573	0	13,201
Cows	2,201	14,606	0	2,770	0	0	1,220	0	20,797
Heifers	9,476	3,233	1,399	11,227	0	0	54,705	0	80,040
Steers	4,302	16,976	7,280	9,567	203	0	53,095	0	91,423
Calves	8	5	0	30	0	0	0	0	43
Yearlings	0	0	0	41	0	0	0	0	41
Total	19,439	39,562	8,852	24,896	203	0	112,593	0	205,545
Replacement									
Bulls	557	327	34	68	9	4	1,112	18	2,129
Cows	1,681	1,418	25	293	43	6	295	12	3,773
Heifers	1,804	693	19	488	44	4	675	82	3,809
Calves	550	292	5	69	33	0	126	12	1,087
Total	4,592	2,730	83	918	129	14	2,208	124	10,798
All Classes	27,599	57,912	9,181	132,826	6,085	17	117,865	124	351,609

	British Columbia	Saskatchewan	Manitoba	Ontario	Quebec	Maritimes	U.S.A.	Other	Total
				- number -					
				1987					
Feeders									
Bulls	321	355	30	11	0	0	91	0	808
Cows	767	395	13	394	1	0	0	0	1,570
Heifers	2,902	5,460	22	29,460	468	0	190	0	38,502
Steers	2,974	11,716	252	29,218	1,537	0	171	0	45,868
Calves	256	1,714	1	16,354	31	0	12	13	18,381
Yearlings	340	744	14	1,140	38	0	0	0	2,276
Total	7,560	20,384	332	76,577	2,075	0	464	13	107,405
Slaughter									
Bulls	5,109	3,503	475	2,192	0	0	3,983	0	15,262
Cows	5,168	13,093	519	1,923	0	0	7,072	0	27,775
Heifers	2,805	2,408	0	10,878	0	0	45,942	0	62,033
Steers	2,260	10,869	1,497	16,237	192	101	60,659	0	91,815
Calves	24	145	0	212	0	0	2	0	383
Yearlings	0	84	0	38	0	0	14	0	136
Total	15,366	30,102	2,491	31,480	192	101	117,672	0	197,404
Replacement									
Bulls	674	466	44	59	4	8	1,692	147	3,094
Cows	2,177	1,685	67	541	20	0	254	17	4,761
Heifers	1,198	1,673	64	426	50	6	519	648	4,584
Calves	605	247	15	111	5	0	107	1	1,901
Total	4,654	4,071	190	1,137	79	14	2,572	813	13,530
All Classes	27,580	54,557	3,013	109,194	2,346	115	120,708	826	318,339

Table 41
HOGS ON FARMS, JULY 1

Census Division	Breeding Stock 6 Months & Over		All Other Pigs		Total Pigs		
	1986[r]	1987	1986[r]	1987	1986[r]	1987	1987 as % 1986
	- thousands -						
1	4.6	5.0	41.5	42.2	46.1	47.2	102.4
2	22.8	23.1	186.2	208.6	209.0	231.7	110.9
3	7.5	7.3	61.8	62.3	69.3	69.6	110.4
4	3.4	4.1	28.5	32.4	31.9	36.5	114.4
5	15.1	15.2	128.3	142.3	143.4	157.5	109.8
6 & 15	10.6	13.2	83.7	97.8	94.3	111.0	117.7
7	9.1	10.3	69.7	82.2	78.8	92.5	117.4
8 & 9	31.0	37.0	240.0	277.9	271.0	314.9	116.2
10	16.8	18.9	122.9	139.0	139.7	157.9	113.0
11	16.3	16.5	130.2	143.0	146.5	159.5	108.9
12 & 16	9.3	10.0	68.6	71.0	77.9	81.0	104.0
13	15.1	17.4	121.6	123.0	136.7	140.4	102.7
14	1.0	1.1	5.8	6.5	6.8	7.6	111.8
17,18,19	7.4	7.9	49.2	54.8	56.6	62.7	110.8
Province	170.0	187.0	1,338.0	1,483.0	1,508.0	1,670.0	110.7

[r] revised

Table 42
HOG MARKETINGS

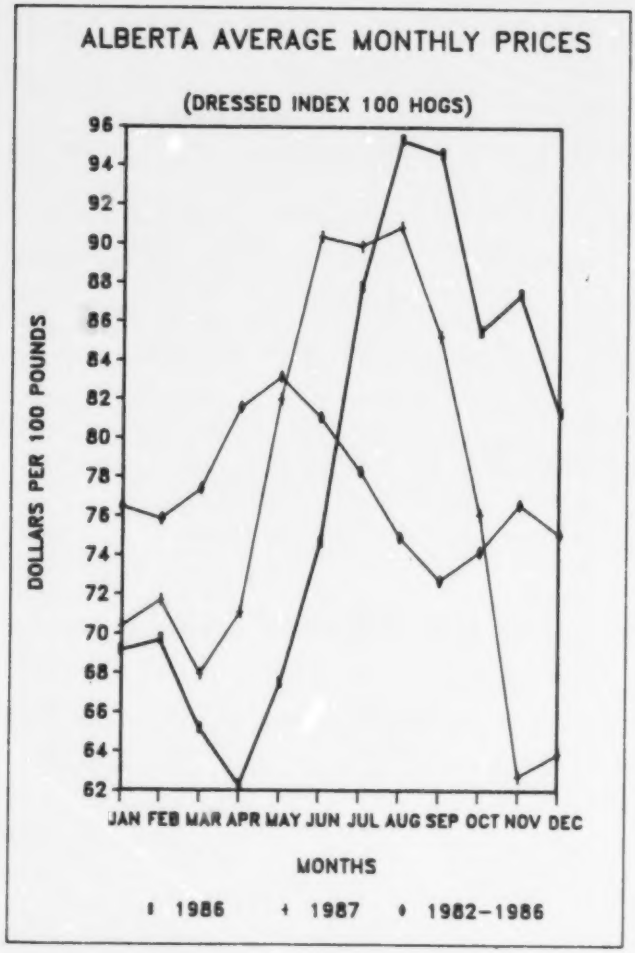
Month	114 & 112	111 & 109	108 & 106	105 & 103	102 & 100	99-97	96-94	93-91	90-83	82	81
						- number -					
Jan	3,696	11,577	40,362	29,864	29,947	14,029	6,548	2,940	3,677	1,720	1,422
Feb	3,666	11,459	41,775	30,756	28,547	12,528	5,731	2,584	2,665	1,103	990
Mar	5,117	16,648	55,208	38,045	34,184	14,422	6,571	2,918	3,170	1,222	1,272
Apr	3,419	11,117	41,403	29,949	28,865	12,613	5,618	2,393	2,638	923	946
May	4,198	12,813	42,310	28,379	27,576	12,226	6,110	2,911	2,989	1,051	1,113
Jun	3,695	12,837	49,574	37,054	36,717	17,062	8,487	4,031	4,103	1,252	1,220
Jul	2,922	10,072	38,549	29,651	29,767	14,881	7,803	3,672	4,066	1,260	767
Aug	3,365	10,732	39,126	29,284	29,179	14,552	7,330	3,391	3,711	1,022	896
Sep	4,025	13,241	49,366	38,560	39,250	18,896	9,264	4,175	4,588	1,248	1,136
Oct	5,470	13,345	37,715	27,394	29,374	16,225	8,523	3,790	4,610	1,697	1,282
Nov	5,424	13,898	39,771	29,003	30,557	15,705	7,801	3,442	4,201	1,536	1,207
Dec	6,809	16,736	45,090	31,567	33,016	16,515	8,033	3,712	4,169	1,425	1,162
Year	51,806	154,475	520,249	379,506	376,979	179,654	87,819	39,959	44,587	15,459	13,413
1986	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-

Note: There are no index totals for 1985 and 1986 due to changes to the index value table instituted in April, 1986.

Month	80	Emaciated	Ridg-lings	Sows	Stags	Boars	Total Graded	Total Ungraded	Grand Total
					- number -				
Jan	808	7	564	1,507	130	27	148,825	2,126	150,951
Feb	871	1	874	2,315	195	25	146,085	1,509	147,594
Mar	955	6	1,649	3,030	120	40	184,577	1,932	186,509
Apr	773	0	1,021	2,035	94	1	143,808	1,521	145,329
May	966	0	1,016	2,416	130	1	146,205	1,045	147,250
Jun	1,343	0	1,236	3,218	128	3	181,960	1,516	183,476
Jul	1,044	5	991	3,334	120	5	148,909	1,520	150,429
Aug	1,220	0	983	2,767	171	1	147,730	1,491	149,221
Sep	1,628	0	1,172	3,794	180	2	190,525	1,979	192,504
Oct	1,464	1	1,071	2,915	152	0	155,028	1,611	156,639
Nov	1,083	0	992	2,578	194	2	157,394	1,923	159,317
Dec	1,077	0	1,006	2,138	146	5	172,606	2,446	175,052
Year	13,232	20	12,575	32,047	1,760	112	1,923,652	20,619	1,944,271
1986	-	-	-	-	-	-	1,808,824	34,355	1,843,179
1985	-	-	-	-	-	-	1,864,149	15,013	1,879,162

Table 43
AVERAGE MONTHLY HOG PRICES, ALBERTA

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per 100 pounds -												
						1986							
Index 100 Dressed	69.22	69.76	65.18	62.32	67.59	74.71	87.36	95.35	94.62	85.55	87.45	81.33	77.88
Sows Dressed	42.41	43.59	42.91	41.69	43.73	49.80	57.33	64.37	70.26	62.01	61.83	57.66	52.39
Sows Live	33.81	34.02	34.05	32.92	33.28	37.80	44.40	48.62	54.93	49.31	49.06	43.55	46.31
Boars Live	16.88	19.37	21.18	21.43	25.47	26.63	26.45	37.17	43.80	37.90	34.99	42.01	32.04
Feeders:													
30-40 lbs	37.26	32.38	37.96	44.15	44.47	47.93	45.28	48.15	50.04	52.72	45.49	57.40	47.27
40-50 lbs	52.78	46.61	57.03	52.30	55.44	58.70	58.11	65.92	63.98	58.66	69.59	73.26	61.91
50-75 lbs	65.80	60.02	62.97	61.06	61.39	69.01	67.72	77.45	70.13	65.42	72.07	80.96	69.10
75-100 lbs	76.15	72.40	66.63	69.47	70.00	77.95	76.33	79.50	84.95	78.30	76.22	95.03	80.34
100 lbs +	85.78	82.26	82.43	74.58	86.00	83.83	86.42	92.31	111.00	99.19	96.07	109.56	91.40
						1987							
Index 100 Dressed	70.40	71.76	67.99	71.12	82.01	90.40	89.90	90.90	85.28	76.11	62.73	63.91	76.43
Sows Dressed	50.12	55.34	55.70	51.48	60.10	56.34	61.28	62.78	59.92	52.93	38.87	34.97	53.03
Sows Live	38.78	43.36	43.32	42.73	46.90	44.32	47.08	49.17	46.49	41.73	30.71	27.22	42.28
Boars Live	27.49	34.02	37.56	40.46	42.96	37.01	35.29	35.70	33.52	27.35	29.44	27.94	34.15
Feeders:													
30-40 lbs	57.62	51.82	53.31	49.35	49.28	48.03	41.06	38.31	50.45	48.24	37.82	39.19	47.21
40-50 lbs	70.91	66.34	66.53	57.55	64.47	57.55	50.41	57.10	64.75	63.20	55.49	52.57	60.83
50-75 lbs	70.24	72.11	72.75	62.65	72.30	71.00	61.19	65.64	70.08	74.14	61.35	62.79	68.40
75-100 lbs	77.76	79.48	82.79	65.22	79.23	81.53	81.02	80.22	79.30	79.16	64.44	65.26	76.51
100 lbs +	76.00	92.03	80.03	86.80	86.00	89.98	84.15	91.70	89.51	83.84	78.64	74.53	83.46


ALBERTA AVERAGE MONTHLY PRICES
(DRESSED INDEX 100 HOGS)
DOLLARS PER 100 POUNDS
96
94
92
90
88
86
84
82
80
78
76
74
72
70
68
66
64
62
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
MONTHS
1986
1987
1982–1986

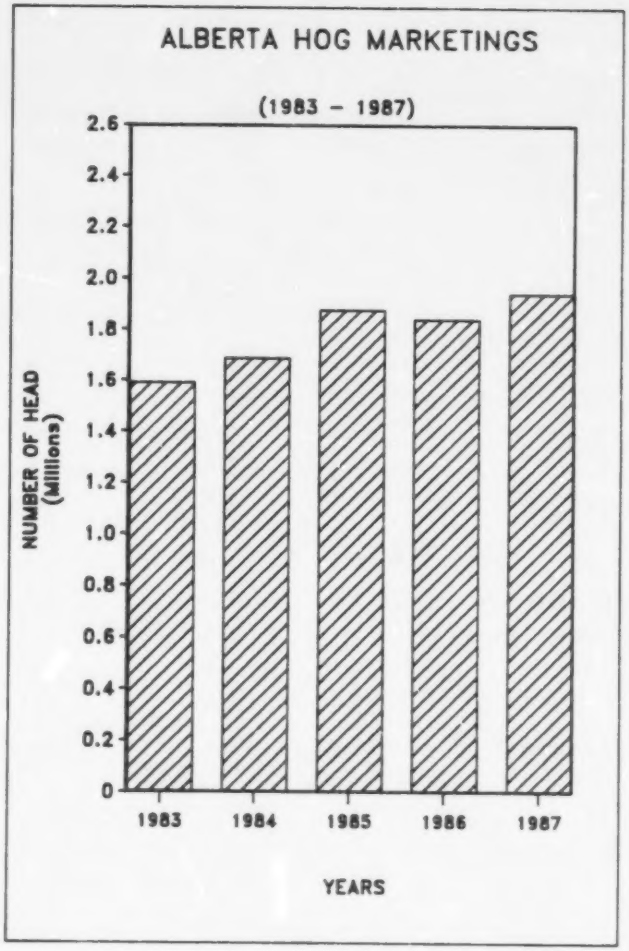

ALBERTA HOG MARKETINGS
(1983 – 1987)
NUMBER OF HEAD
(Millions)
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0
1983
1984
1985
1986
1987
YEARS

Table 44
SHEEP AND LAMBS ON FARMS, JULY 1

Census Division	One Year & Older		Under One Year		Total Sheep		
	1986[r]	1987	1986[r]	1987	1986[r]	1987	1987 as % 1986
	- thousands -						%
1	2.0	1.9	2.7	2.7	4.7	4.6	97.9
2	11.1	10.9	15.8	15.8	26.9	26.7	99.3
3	20.2	20.1	25.0	25.1	45.2	45.2	100.0
4	0.9	1.0	1.2	1.3	2.1	2.3	109.6
5	2.9	3.1	3.8	4.4	6.7	7.5	111.9
6 & 15	8.6	9.1	9.8	11.3	18.4	20.4	110.9
7	2.4	2.3	2.6	2.6	5.0	4.9	98.0
8 & 9	7.7	8.1	9.2	11.0	16.9	19.1	113.0
10	4.8	4.6	5.7	5.6	10.5	10.2	97.1
11	6.4	6.6	6.9	7.3	13.3	13.9	104.5
12 & 16	3.6	3.5	3.9	3.8	7.5	7.3	97.3
13	5.6	5.8	6.4	6.9	12.0	12.7	105.8
14	1.1	1.1	1.1	1.2	2.2	2.3	104.5
17,18,19	5.6	5.8	6.6	7.1	12.2	12.9	105.7
Province	82.9	83.9	100.7	106.1	183.6	190.0	103.5

[r] Revised

Table 45
AVERAGE MONTHLY SHEEP AND LAMB PRICES, EDMONTON

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per 100 pounds -												
	1986												
Lambs													
A & B 80-100 lbs .	75.46	79.86	81.86	86.06	-	88.33	82.25	81.36	79.67	75.53	76.74	91.50	80.13
A & B -80 lbs . . .	-	80.00	-	-	-	-	-	83.00	-	-	-	-	82.06
C 50 lbs+	56.76	59.51	-	-	75.00	76.52	76.50	74.33	76.00	70.72	76.19	75.50	72.44
Feeders all wts . .	83.60	82.46	88.00	87.00	90.00	85.98	90.79	95.84	86.18	88.55	91.54	97.35	89.14
Sheep													
D1,2	51.02	42.98	48.00	47.53	38.00	50.03	45.51	52.85	42.00	44.88	56.71	70.00	50.64
	1987												
Lambs													
A & B 80-100 lbs .	97.05	98.43	99.00	103.00	104.50	93.00	86.86	85.56	85.08	84.80	84.05	89.00	88.64
A & B -80 lbs . . .	90.00	-	-	105.00	-	-	-	-	83.36	75.69	-	-	81.02
C 50 lbs+	80.02	84.59	-	82.50	-	-	31.03	63.00	82.69	60.00	77.29	-	71.31
Feeders all wts . .	128.00	121.00	117.00	121.00	110.00	108.00	100.50	99.20	106.18	100.94	112.00	106.64	104.83
Sheep													
D1,2	76.89	45.00	51.54	55.15	42.00	77.00	54.00	42.70	69.00	-	35.00	-	55.54

Table 46
SHEEP AND LAMB MARKETINGS

	1986			1987		
	Sheep	Lambs	Total	Sheep	Lambs	Total
		- number of head -			- number of head -	
January	107	5,348	5,455	162	2,958	3,120
February	1,314	5,009	6,323	35	3,981	4,016
March	477	7,953	8,430	51	4,814	4,865
April	563	4,348	4,911	110	3,079	3,189
May	329	4,128	4,457	405	4,579	4,984
June	710	6,445	7,155	287	5,110	5,397
July	276	5,118	5,394	265	4,292	4,557
August	206	4,447	4,653	191	5,225	5,416
September	631	7,405	8,036	353	6,850	7,203
October	180	4,194	4,374	1,525	3,477	5,002
November	353	4,622	4,975	146	4,119	4,265
December	266	4,873	5,139	190	5,232	5,422
Year	5,412	63,890	69,302	3,720	53,716	57,436

HORSES

Alberta is the leading Canadian province in horse production. In 1986 this province accounted for 34 per cent of the total of 394,953 horses and ponies on all census farms in Canada. The next province was Ontario, with 19 per cent.

During 1987 the number of horses registered by the various breed associations in Alberta totalled 5,992 head. This was six per cent below registrations in 1986 and continued a downward trend that has persisted since a total of 8,566 head were registered in 1983. However, the number of horses exported out-of-province under provincial inspection was up almost 16 per cent over 1986 exports to 15,334 head.

Estimated returns to producers from the sale of registered horses was almost steady from 1986, at $12.3 million. Exports of horse meat amounted to about 11.7 tonnes, with a total value ot almost $37 million, up substantially from 1986.

The production and value of pregnant mare urine in 1987-88 were relatively unchanged from year earlier levels. A total of 2,650 mares were utilized on 27 farms, with a gross sales value of $2,578,000. Corresponding year earlier statistics were 2,700 mares, 27 farms and $2,637,000.

Table 47
HORSE MEAT EXPORTS

Quantity

	1983	1984	1985	1986	1987
			- tonnes -		
Europe	3 190	4 938	4 696	7 030	7 508
Japan	2 148	1 709	2 380	3 388	4 087
U.S.A.	37	36	43	58	-
Other	6	-	-	-	79
Total	5 381	6 683	7 119	10 476	11 674

Value

	1983	1984	1985	1986	1987
			- $'000 -		
Europe	8,870	11,648	9,309	18,595	26,032
Japan	5,880	5,035	5,755	8,387	10,855
U.S.A.	86	18	68	62	-
Other	21	-	-	-	101
Total	14,857	16,701	15,132	27,044	36,988

Table 48
BRAND INSPECTION RECORD OF LIVE ALBERTA HORSE SHIPMENTS, BY DESTINATION

	Alberta	Other Provinces	Export	Total	Alberta	Other Provinces	Export	Total
		1986				1987		
		- number of head -				- number of head -		
Feeders								
Fillies	0	23	16	39	0	10	17	27
Geldings	31	702	339	1,072	12	779	476	1,234
Mares	16	365	196	577	8	346	222	576
Stallions	0	32	41	73	22	44	32	98
Colts	0	18	9	27	0	11	10	21
Total	47	1,140	601	1,788	42	1,190	757	1,956
Slaughter								
Fillies	440	0	0	440	276	5	1	282
Geldings	4,684	0	0	4,684	4,672	20	11	4,703
Mares	6,446	3	0	6,449	6,779	8	26	6,813
Stallions	1,308	0	9	1,317	1,220	1	28	1,249
Colts	163	0	17	180	265	0	0	265
Total	13,041	3	26	13,070	13,212	34	66	13,312
Replacement								
Fillies	0	13	9	22	0	10	1	11
Mares	0	28	20	48	2	34	9	45
Stallions	0	6	0	6	0	2	1	3
Colts	0	6	0	6	0	7	0	7
Total	0	53	29	82	2	53	11	66
All Classes	13,088	1,196	656	14,940	13,256	1,277	834	15,334

Table 49
REGISTRATIONS AND SALES OF REGISTERED HORSES IN ALBERTA

	Registrations by Breed Associations					Ownership Transfers				
	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987
	- number of head -					- number of head -				
Arabian	860	771	756	577	513	768	729	630	629	595
Appaloosa	475	417	364	306	365	424	430	382	330	354
Morgan	128	237	193	184	131	186	221	199	203	153
Quarter Horse	5,023	4,939	3,853	4,005	3,432	6,210	6,031	5,588	4,789	4,891
Standardbred	516	496	353	271	399	N/A	N/A	N/A	N/A	N/A
Thoroughbred	799	690	770	797	684	N/A	N/A	N/A	N/A	N/A
Draft	324	351	304	267	284	294	398	360	302	386
Others	286	234	242	269	184	84	143	131	165	148
Total	8,566	8,261	7,126	6,405	5,992	-	-	-	-	-

N/A - Transfers not recorded by the Association

Table 50
PREGNANT MARE URINE STATISTICS

	Number of Mares	Number of Farms	Gross Revenue*
	no.	no.	$'000
1984/85	1,800	16	1,774
1985/86	3,020	28	2,728
1986/87	2,700	27	2,637
1987/88	2,650	27	2,578

* Gross farm revenue from the sale of pregnant mare urine.

Table 51
LIVESTOCK SLAUGHTERED IN FEDERALLY AND PROVINCIALLY INSPECTED PACKING PLANTS

1986

	Steers	Heifers	Cows	Bulls	Total Cattle	Calves	Hogs	Sheep & Lambs
				- number of head -				
January	39,279	32,880	21,653	443	94,255	486	138,354	5,455
February	45,311	37,046	18,803	416	101,576	538	134,681	6,375
March	55,164	39,184	14,188	491	109,027	572	180,357	10,254
April	44,125	36,460	10,572	435	91,592	667	146,732	6,925
May	47,219	35,609	9,414	430	92,672	461	135,923	5,850
June	66,799	35,369	11,537	471	114,176	572	71,057	7,155
July	49,508	26,969	8,999	378	85,854	480	94,490	5,653
August	48,165	24,954	8,549	473	82,141	443	106,912	5,300
September	58,392	30,366	11,378	725	100,861	679	151,809	8,203
October	42,450	19,442	9,388	443	71,723	604	126,632	8,050
November	36,996	29,133	15,375	577	82,081	617	122,276	5,278
December	54,580	38,929	21,659	1,115	116,283	753	162,928	7,913
Year	587,988	386,341	161,515	6,397	1,142,241	6,872	1,572,151	82,411

Note: These data represent livestock slaughtered and inspected in Alberta, irrespective of their origin.

1987

	Steers	Heifers	Cows	Bulls	Total Cattle	Calves	Hogs	Sheep & Lambs
				- number of head -				
January	43,074	31,800	16,782	444	92,100	680	135,264	4,944
February	41,571	31,354	14,381	367	87,673	452	133,016	5,476
March	54,202	35,903	13,529	407	104,041	652	167,829	5,941
April	44,548	28,290	9,948	369	83,155	516	131,572	4,804
May	56,783	26,633	9,014	336	92,766	464	131,459	5,301
June	66,003	33,096	14,582	560	114,241	575	166,144	6,331
July	57,001	26,877	9,581	453	93,912	422	134,587	5,712
August	55,737	26,757	8,119	486	91,099	394	137,078	5,989
September	65,710	33,873	11,681	482	111,746	727	176,021	7,712
October	49,882	21,615	14,122	478	86,097	628	144,706	5,459
November	49,946	28,226	16,046	433	94,651	623	146,503	5,242
December	51,596	31,762	16,260	323	99,941	706	157,068	6,981
Year	636,053	356,186	154,045	5,138	1,151,422	6,839	1,761,247	69,892

Note: These data represent livestock slaughtered and inspected in Alberta, irrespective of their origin.

TABLE 52
LIVESTOCK ON FARMS, JULY 1*

Year	Milk Cows & Dairy Heifers	Beef Cows & Beef Heifers	Calves	All Cattle	Hogs	Sheep and Lambs
			- thousand head -			
1967	272.0	1,518.0	1,035.0	3,393.0	1,262.0	260.0
1968	252.0	1,479.0	1,018.0	3,341.0	1,266.0	210.0
1969	232.0	1,478.0	989.0	3,286.0	1,187.0	180.0
1970	233.0	1,600.0	1,070.0	3,493.0	1,532.0	199.0
1971	223.6	1,721.3	1,157.3	3,702.1	1,739.1	244.9
1972	210.0	1,864.0	1,225.0	3,924.0	1,490.0	256.0
1973	205.0	2,031.0	1,319.0	4,201.0	1,499.0	241.0
1974	200.0	2,219.0	1,434.0	4,595.0	1,322.0	230.0
1975	193.0	2,242.0	1,458.0	4,689.0	873.0	209.0
1976	214.0	2,168.0	1,435.0	4,675.0	879.9	183.0
1977	210.0	2,078.0	1,315.0	4,350.0	944.3	146.5
1978	209.0	1,960.0	1,239.0	4,135.0	960.0	142.5
1979	215.0	1,925.0	1,205.0	4,080.0	1,130.0	153.5
1980	224.0	1,951.0	1,290.0	4,155.0	1,251.0	178.0
1981	220.5	1,936.0	1,300.0	4,153.0	1,185.0	198.0
1982	209.0	1,941.0	1,260.0	4,080.0	1,180.0	203.0
1983	194.0	1,905.0	1,235.0	3,965.0	1,255.0	202.0
1984	190.0	1,899.0	1,255.0	3,975.0	1,470.0	188.0
1985	181.0	1,831.0	1,245.0	3,840.0	1,475.0	175.0
1986	175.0	1,802.0	1,252.0	3,735.0	1,508.0	183.6
1987	178.0	1,837.0	1,270.0	3,800.0	1,670.0	190.0

* Prior to 1975, estimates of livestock numbers were based on June 1 survey.

NOTE: 1. Beef heifers include heifers being raised for slaughter, and heifers for beef herd replacement.
2. 1986 and 1987 numbers are subject to revision.

Table 53
PER CAPITA CONSUMPTION OF MEATS IN CANADA

Year	Beef	Veal	Mutton & Lamb	Pork	Offals	Canned Meats	Poultry
			- kilograms per year -				
1967	37.7	3.2	1.9	24.7	1.8	2.8	18.5
1968	38.6	3.1	2.2	24.3	1.7	3.0	18.1
1969	38.8	2.3	2.3	23.3	1.7	3.4	20.0
1970	38.3	2.1	2.1	26.7	1.5	3.6	20.5
1971	40.2	2.0	1.5	29.5	2.0	*	19.7
1972	42.8	1.7	2.1	28.6	1.9	*	20.2
1973	42.0	1.5	1.6	26.9	1.8	*	20.9
1974	43.7	1.6	1.1	28.2	1.7	*	20.3
1975	48.5	2.4	1.3	24.1	1.7	*	19.0
1976	51.4	2.4	1.0	25.1	1.7	*	20.0
1977	48.8	2.3	0.8	25.1	1.6	*	20.7
1978	45.7	1.8	0.9	26.0	1.9	*	21.3
1979	39.9	1.4	1.1	29.0	1.4	*	22.8
1980	39.5	1.4	0.8	31.3	1.9	*	22.8
1981	40.7	1.6	0.7	30.1	1.4	*	22.6
1982	40.4	1.7	0.7	27.8	1.3	*	22.7
1983	40.0	1.7	0.8	28.6	1.4	*	22.9
1984	38.3	1.8	0.9	27.9	1.5	*	23.6
1985	38.8	1.8	0.8	28.5	1.7	*	25.1
1986	38.2	1.6	0.9	27.1	1.7	*	26.2
1987	36.9	1.6	0.9	27.1	1.4	*	27.7

* Due to changes in source data, comparable information is not available.

Note: Poultry consumption data price to 1977 include geese and ducks.

DAIRY

There were an estimated 125,000 dairy cows on farms in Alberta at January 1, 1988. Prior to July 1, 1979 the definition of a dairy cow was any animal over 24 months of age being kept for milk purposes. This has since been changed to include all animals which have calved at least once, irrespective of age.

Milk production during 1987-88 amounted to 589,450,000 litres, an increase of 1.74 per cent over the previous year. The estimated farm value of milk production was 269 million dollars.

Creamery butter production totalled 7.0 million kilograms and cheddar cheese 6.8 million kilograms. Fluid milk sales increased to 218.4 million litres from 215.0 million litres.

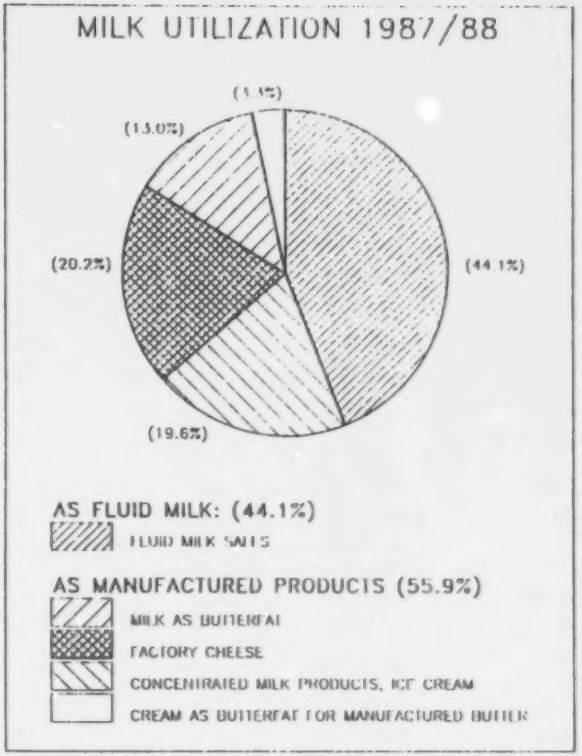


Table 54
DAIRY PRODUCER REGISTRATIONS

	Type of Producer			
	Fluid	Industrial	Cream	Total
1987	1,320	220	863	2,403
1988	1,437	53	730	2,220

Estimates at April 30th for 1987 and 1988

Table 55
FARM VALUE OF MILK PRODUCTION

	Year*	Production	Milk Equivalent	Total Milk	Price	Value
		'000 kg	'000 litres	%	$	$'000
Butterfat for Creamery Butter	1986-87	787	22 485	3.88	4.622/kg	3,638
	1987-88	684	19 542	3.32	4.610/kg	3,153
Milk Purchased for the Manufacture of Powder and Butter 1/	1986-87		114 790	19.81	39.41/hl	45,239
	1987-88		115 527	19.60	39.93/hl	46,130
Milk for Cheesemaking	1986-87		110 212	19.02	39.41/hl	43,435
	1987-88		119 496	20.27	39.93/hl	47,715
Milk for Concentrating and Milk and Butterfat for Ice Cream and Miscellaneous Products 2/	1986-87		54 963	9.49	41.21/hl	22,650
	1987-88		57 182	9.70	41.63/hl	23,805
Milk Purchased for Fluid Purposes	1986-87		256 694	44.31	49.31/hl	126,576
	1987-88		260 694	44.13	47.89/hl	124,576
Kept on Farms, Skimmilk for Creamery Butter	1986-87		20,288	3.49	18.27/hl	3,696
	1987-88		17 588	2.98	18.38/hl	3,233
Estimated Federal Subsidy	1986-87					19,852
	1987-88					21,043
Total	1986-87		579 372			265,086
	1987-88		589 454			269,650

* April - March

1 Includes milk used for the making of cottage cheese.

2 Does not include butterfat from creamery butter used in the manufacture of ice cream.

Table 56
PRODUCTION AND VALUE OF FACTORY DAIRY PRODUCTS

	Year*	Quantity	Price	Value
		'000	$	$'000
Creamery Butter (kilograms)	1986-87	7 409	5.454/kg	40,408
	1987-88	7 062	5.461/kg	38,566
Cheddar Cheese (kilograms)	1986-87	6 822	6.746/kg	46,021
	1987-88	6 836	6.714/kg	45,897
Variety Cheese (kilograms)	1986-87	5 022	5.766/kg	28,957
	1987-88	5 427	5.906/kg	32,052
Ice Cream[1] (litres)	1986-87	31 108	1.850/litre	57,549
	1987-88	29 695	1.860/litre	55,233
Fluid Milk Sales (litres)	1986-87	215 084	0.790/litre	169,916
	1987-88	218 474	0.800/litre	174,779
Fluid Cream Sales (litres)	1986-87	9 520	1.570/litre	14,946
	1987-88	10 146	1.570/litre	15,929
Fluid Skimmilk, Buttermilk and Chocolate Sales (litres)	1986-87	32 385	0.862/litre	27,916
	1987-88	38 360	0.862/litre	33,066
Miscellaneous Manufactured Products[2]	1986-87			122,189
	1987-88			119,597
Total	1986-87			507,902
	1987-88			515,119

* April - March

1 Includes hard and soft ice cream.

2 Includes concentrated milk products, cottage cheese, whey cheese and yoghurt.

Table 57
MILK AND CREAM PRODUCTION IN KG OF BUTTERFAT

	Fluid Milk[1]		Industrial Milk		Industrial Cream		Total	
	1985-86	1986-87	1985-86	1986-87	1985-86	1986-87	1985-86	1986-87
				- kilograms -				
August	1 538 149	1 640 839	127 161	127 388	99 698	82 830	1 765 008	1 851 057
September	1 444 086	1 510 481	112 217	117 657	80 985	77 249	1 637 288	1 705 387
October	1 440 817	1 499 244	108 290	114 412	67 608	61 079	1 616 715	1 674 735
November	1 394 295	1 458 532	102 301	106 732	50 344	45 121	1 546 940	1 610 385
December	1 482 791	1 548 141	110 213	110 377	48 389	45 739	1 641 393	1 704 263
January	1 549 113	1 591 585	112 967	114 383	50 155	43 138	1 712 235	1 749 106
February	1 420 577	1 464 545	103 545	107 106	45 868	40 579	1 569 990	1 612 230
March	1 608 575	1 644 077	119 872	125 161	54 263	52 827	1 782 710	1 822 065
April	1 611 385	1 616 695	121 544	125 740	69 671	58 136	1 802 600	1 800 571
May	1 710 321	1 715 030	132 044	136 864	82 329	65 108	1 924 694	1 917 002
June	1 718 065	1 667 188	136 711	131 738	93 242	78 992	1 948 018	1 877 918
July	1 714 996	1 650 735	136 069	131 456	93 200	70 887	1 944 265	1 853 078
Total	18 633 170	19 007 098	1 422 934	1 449 014	835 752	721 685	20 891 856	21 177 797

[1] All Fluid milk is not used for fluid milk sales.

POULTRY AND EGGS

Poultry meat production in Alberta rose substantially in 1987 after a marginal decrease had been recorded, for only the second time this decade, in 1986. The total output of 61 387 tonnes was an all-time high and surpassed the previous high recorded in 1985 by 4,056 tonnes, or seven per cent. Turkey meat output rose 14 per cent over 1986 levels to 10 285 tonnes while the output of stewing hen and chicken meat increased by seven per cent to 51 102 tonnes.

The annual average of monthly layer numbers has tended to be a bit unstable in recent years. Following a four per cent decrease in 1984, it rose marginally, by about one per cent, in each of 1985 and 1986 but in 1987 it dropped again, by about three per cent, to 2,229,000 head. Total egg production in 1987 was down by 180,000 dozens from 1986, to 40,430,000 dozens.

The annual average price of broiler chickens was almost unchanged, on a year to year basis, but the price of roasters increased by 1.9 cents per kg to 127.4 cents per kg. In contrast, turkey prices averaged lower than 1986 prices. The decreases ranged from a cent per kg to 1.6 cents per kg, depending on weight. Prices received by producers for grade A eggs in 1987 were below the prices received in 1986. Grade A large egg prices were down by as much as five cents per dozen in some months.

Production of egg-type pullet chicks was down six per cent from 1986 to 2,215,000 head, but the production of broiler-type chicks increased almost 12 per cent to 35,608,000 head. The number of turkey poults on Alberta farms at year's end was up almost 12 per cent from the corresponding 1986 inventory, to 1,783,000 head.

Table 58
EGG PRICES TO PRODUCERS

	Grade AL	Grade AM	Grade AS	Grade B	Grade C
	- cents per dozen -				
	1986				
January	99	90	49	60	30
February	100	91	50	60	30
March	101	92	51	60	30
April	101	92	51	60	30
May	100	91	50	60	30
June	100	91	50	60	30
July	100	91	50	60	30
August	100	91	50	60	30
Spetember	99	90	49	60	30
October	99	90	49	60	30
November	99	90	49	60	30
December	98	89	48	60	30
	1987				
January	98	89	48	60	30
February	98	89	48	60	30
March	98	89	48	60	30
April	96	87	46	60	30
May	96	87	46	60	30
June	97	88	47	60	30
July	98	87	48	60	30
August	98	87	48	60	30
September	98	87	48	60	30
October	98	87	48	60	30
November	98	87	48	60	30
December	98	87	48	60	30

Note: Prices have been rounded to the nearest cent

Table 59
AVERAGE MONTHLY PRICES TO PRODUCERS OF LIVE CHICKENS AND TURKEYS

	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- cents per kilogram -												
1986													
Chickens:													
Under 2.3 kg	112.0	112.0	112.0	112.0	109.5	107.0	107.0	107.0	114.2	116.0	115.0	113.2	111.4
2.3 and under 2.8 kg	102.5	102.5	102.5	102.5	100.0	97.5	97.5	97.5	104.7	106.5	105.5	103.7	101.9
2.8 and under 3.2 kg	126.5	126.5	126.5	126.5	124.0	121.5	121.5	121.5	128.7	130.5	129.4	123.2	125.5
3.2 kg and over	126.5	126.5	126.5	126.5	116.8	107.0	107.0	107.0	107.0	107.0	107.0	116.2	115.0
Turkeys:													
5.4 kg and under	157.0	157.0	157.0	157.0	157.0	156.0	152.0	152.0	152.0	152.0	152.0	155.0	154.7
5.5 and under 9.0 kg	155.0	155.0	155.0	155.0	155.0	154.2	151.0	151.0	151.0	151.0	151.0	153.4	153.2
9.0 kg and over	154.0	154.0	154.0	154.0	154.0	153.2	150.0	150.0	150.0	150.0	150.0	152.4	152.2
1987													
Chickens:													
Under 2.3 kg	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	110.5	107.5	105.6	111.1
2.3 and under 2.8 kg	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	101.0	98.0	96.1	101.6
2.8 and under 3.2 kg	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	127.0	123.0	120.1	127.4
3.2 kg and over	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	125.0	122.0	120.1	125.6
Turkeys:													
5.4 kg and under	157.0	157.0	157.0	157.0	157.0	153.0	153.0	153.0	153.0	151.5	147.0	147.0	153.6
5.5 and under 9.0 kg	155.0	155.0	155.0	155.0	155.0	151.0	151.0	151.0	151.0	149.5	145.0	145.0	151.6
9.0 kg and over	154.0	154.0	154.0	154.0	154.0	151.0	151.0	151.0	151.0	149.5	145.0	145.0	151.2

Note: Prices are Alberta averages

Table 60
HATCHERY CAPACITIES

	Breeder Hatcheries	Commercial Hatcheries	Total Hatchery Capacity
		- number -	
1981	0	16	6,250,004
1982	0	16	6,250,004
1983	0	15	6,587,144
1984	1	14	6,225,870
1985	1	14	6,225,870
1986	-	12	6,352,592
1987	-	12	6,352,592

Table 61
CHICK PRODUCTION

For Egg Production Type*			For Broiler Production Type		
1986	1987	Change	1986	1987	Change
- number -		%	- number -		%
2,366,000	2,215,000	-6.4	31,953,000	35,608,000	+11.5

* Female chicks only

Table 62
CHICK DISPOSITION

	Hatch-ability	Hatched[1]	Not Sold[2]	Total Exports	International Imports	Interprovincal Imports	Remaining In Province
				- number -			
1981	75.8	39,581,372	2,102,561	1,839,112	446,036	797,849	36,883,584
1982	77.4	40,085,522	2,254,319	1,421,022	516,585	412,500	37,339,266
1983	75.8	37,282,000	2,070,071	619,598	455,681	520,524	35,568,536
1984	77.2	39,954,421	2,231,314	772,414	389,000	519,935	37,859,628
1985	77.7	39,644,683	2,207,931	827,707	468,178	378,437	37,455,660
1986	77.0	40,571,570	2,577,269	1,083,440	455,770	355,292	37,721,923
1987*	76.8	44,697,000	2,437,000	1,175,000	517,000	498,000	42,100,000

[1] Includes both Leghorn and broiler chicks.
[2] The high number of chicks not sold is a result of Leghorn cockerels that are destroyed.
* Data for 1987 have been rounded to the nearest thousand due to changes in source data.

Table 63
TURKEY POULT PRODUCTION

	Eggs Set	Eggs Imported	Hatched	Hatch-ability	Imported	Exported	Poults On Farms	Other*
		- number -		%		- number -		
1981	2,244,185	614,151	1,444,563	64.4	-	223,230	1,514,267	292,934
1982	2,009,805	746,628	1,330,143	66.2	43,550	134,692	1,549,001	310,000
1983	2,066,000	976,600	1,377,871	66.7	64,654	135,107	1,598,000	290,582
1984	1,780,579	558,400	1,243,654	69.8	111,177	154,674	1,691,309	491,152
1985	1,632,917	396,874	1,165,266	71.4	178,143	201,550	1,662,614	520,755
1986	1,522,712	353,862	1,083,894	71.2	26,650	202,146	1,603,062	694,664
1987	1,525,000	260,000	1,047,000	68.7	22,000	163,000	1,788,000	882,000

* Poults brought in from other provinces (not included in "Imports").

Note: Data for 1987 have been rounded to the nearest thousand due to changes in source data.

Table 64
POULTRY EVISCERATED IN REGISTERED STATIONS

	Chickens		Fowl	Ducks	Geese	Turkeys			
	Under 2 kg	Over 2 kg				Under 5 kg	5-8 kg	Over 8 kg	Total*
					- '000 kg -				
1981	32 244	1 700	1 863	2.3	5.9	2 099	2 757	1 888	8 453
1982	34 409	2 501	2 059	-	6.0	1 914	3 487	3 203	8 724
1983	33 317	2 003	1 836	0.4	7.1	1 784	3 605	3 185	8 671
1984	36 497	2 210	2 531	7.0	8.0	1 999	3 853	3 666	9 650
1985	38 047	2 340	-	-	-	2 003	4 063	3 107	9 361
1986	36 993	2 198	-	-	-	1 673	3 824	3 727	9 357
1987	39 273	2 767	-	-	-	1 713	4 272	4 469	10 620

* Totals include mature turkeys

Table 65
OUTPUT AND VALUE OF POULTRY MEATS

	Total Production		Consumed by Producers		Sold	
	Tonnes	Value $'000	Tonnes	Value $'000	Tonnes	Value $'000
			1986			
Stewing Hen & Chicken	47 692	70,262	771	848	46 921	69,414
Turkey	9 024	16,424	171	311	8 853	16,113
Total	56 716	86,686	942	1,159	55 774	85,527
			1987			
Stewing Hen & Chicken	51 102	76,211	811	892	50 291	75,319
Turkey	10 285	18,615	203	367	10 082	18,248
Total	61 387	94,826	1 014	1,259	60 373	93,367

Table 66
PRODUCTION, DISPOSITION AND VALUE OF EGGS

1986[r]

	Production		Disposition					
			Sold[1]					
	Number of Layers*	Production[1]	For Consumption	Value	For Hatching	Value	Producer use for Consumption	Value
	'000	'000 doz.	'000 doz.	$'000	'000 doz.	$'000	'000 doz.	$'000
January	2,345	3,462	3,003	2,732	335	935	124	114
February	2,364	3,142	2,693	2,479	335	935	114	106
March	2,357	3,511	2,913	2,703	472	1,317	126	118
April	2,336	3,373	2,806	2,605	445	1,242	122	115
May	2,324	3,525	3,009	2,767	392	1,094	124	116
June	2,308	3,410	2,968	2,703	323	901	119	111
July	2,300	3,442	2,996	2,744	325	907	121	112
August	2,295	3,474	3,020	2,779	334	932	120	112
September	2,266	3,326	2,881	2,629	330	921	115	107
October	2,223	3,353	2,876	2,631	359	1,002	118	110
November	2,215	3,220	2,762	2,490	345	963	113	104
December	2,240	3,381	2,955	2,629	311	868	115	104
Year	2,298[2]	40,619	34,882	31,891	4,306	12,017	1,431	1,329

1 Includes exports.
2 Average of monthly estimates.
* Average of the estimated number of layers at the beginning and end of the month.
r Revised

1987

	Production		Disposition					
			Sold[1]					
	Number of Layers*	Production[1]	For Consumption	Value	For Hatching	Value	Producer use for Consumption	Value
	'000	'000 doz.	'000 doz.	$'000	'000 doz.	$'000	'000 doz.	$'000
January	2,280	3,520	3,032	2,725	373	1,041	115	104
February	2,289	3,216	2,758	2,478	353	985	105	95
March	2,290	3,535	2,940	2,616	480	1,339	115	103
April	2,285	3,444	2,870	2,524	462	1,289	112	100
May	2,278	3,605	3,060	2,646	430	1,200	115	101
June	2,241	3,419	2,887	2,557	421	1,175	111	98
July	2,220	3,469	2,978	2,652	376	1,049	115	103
August	2,203	3,427	2,918	2,616	394	1,099	115	103
September	2,175	3,195	2,717	2,447	366	1,021	112	102
October	2,162	3,245	2,741	2,448	388	1,083	116	105
November	2,159	3,131	2,646	2,354	373	1,041	112	100
December	2,168	3,233	2,735	2,426	383	1,069	115	103
Year	2,229[2]	40,439	34,282	30,489	4,799	13,391	1,358	1,217

[1] Includes exports.
[2] Average of monthly estimates.
* Average of the estimated number of layers at the beginning and end of the month.

APICULTURE

The number of beehives in Alberta, for the second straight year, rose to an all-time high. Estimated at 193,000, the population was about two per cent more than the 1986 record estimate of 190,000. The estimated number of active beekeepers dropped from 1,700 to 1,680. As a result, average apiary size rose from 112 to 115 hives.

Total estimated honey production in 1987 was 11 567 tonnes, up 681 tonnes, or six per cent, from 1986. This increase was the result of a higher provincial average yield and increased beehive numbers. The Peace River region alone accounted for just under 45 per cent of the provincial honey crop and remains the leading beekeeping area in all of Canada.

The producer price of honey dropped by 40 cents per kg from a year earlier, to 92 cents per kg. This price was the lowest since 1976. Estimated farm value of honey and beeswax produced in Alberta during the year was approximately $11 million. Payments to beekeepers under the Alberta Hail and Crop insurance program amounted to $196,300.

Table 67
BEEKEEPERS AND COLONIES

	Beekeepers	Colonies	Hives Per Apiary
		- number -	
1978	1,800	160,000	89
1979	1,700	150,000	88
1980	1,800	160,000	89
1981	1,700	170,000	100
1982	1,650	174,000	105
1983	1,610	172,000	107
1984	1,600	180,000	112
1985	1,700	170,000	100
1986	1,700	190,000	112
1987	1,680	193,000	115

Table 68
HONEY PRODUCTION AND PRICE

	Yield Per Hive	Total Production	Price
	kg	tonnes	$/kg
1978	57	9 072	1.12
1979	68	10 251	1.26
1980	64	10 306	1.28
1981	62	10 478	1.42
1982	47	8 210	1.37
1983	66	11 385	1.32
1984	70	12 542	1.07
1985	49	8 392	1.24
1986	57	10 886	1.32
1987	60	11 567	0.92

Table 69
HONEY AND BEESWAX VALUE

	Honey	Honey and Wax
	- dollars -	
1978	10,200,000	10,641,000
1979	12,882,000	13,368,000
1980	13,166,000	14,579,000
1981	14,934,000	15,339,000
1982	11,265,000	11,506,000
1983	15,029,000	15,300,000
1984	13,410,250	13,699,250
1985	10,415,500	10,664,900
1986	14,400,000	14,595,000
1987	10,710,000	10,921,200

FUR FARMS

Table 70
FUR FARM LICENSES

	1985-86	1986-87
	- number -	
Mink Std. & Mut	8	9
Fox	22	36
Chinchilla	20	27
Other	2	2
Total	52	74

Table 71
ANIMALS RETAINED FOR BREEDING

	No. of Animals		Total Value	
	1985-86	1986-87	1985-86	1986-87
			- dollars -	
Mink Std. & Mut.	24,098	21,940	771,136	1,140,880
Chinchilla	(information not available)			
Fox	1,810	2,405	271,500	416,065
Other	31	31	18,600	18,600
Total	25,939	25,256	1,061,236	1,597,545

Table 72
ANIMALS PELTED

	Mink Pelts Produced	Mink Pelts Value
		-dollars-
1979-80	49,389	2,388,452
1980-81	33,270	1,164,450
1981-82	34,117	1,023,510
1982-83	37,119	1,113,570
1983-84	40,817	1,616,353
1984-85	28,119	1,012,284
1985-86	30,855	987,360
1986-87	31,408	1,633,216

Table 73
ANIMALS EXPORTED

	No. of Animals		Total Value	
	1985-86	1986-87	1985-86	1986-87
			- dollars -	
Mink Std. & Mut.	30,855	31,408	987,360	1,633,216
Chinchilla	(information not available)			
Fox	617	1,083	92,550	187,359
Total	31,472	33,239	1,079,910	1,839,275

FOOD AND BEVERAGE INDUSTRY

Alberta's food and beverage industry has undergone many changes since 1976. That year, shipments were worth $1.71 billion, or 33 per cent of total manufacturing shipments for the province. By 1985, shipments were $3.87 billion. Yet the recession of the early 1980's reduced shipment values and shifted trends in the industry's sectors.

From 1981 to 1985, shipments of meat and poultry increased only 5 per cent to $2 billion. The feed industry fared much better, maintaining shipments at 95 per cent of 1981 values. It is hard to assess changes in the category "other" since it is comprised of small numbers of diverse firms such as dairies, flour mills and vegetable processors. From 1976 to 1981, shipment values in this dynamic group grew 157 per cent, while during the next four years growth was only 8 per cent.

While actual shipment values for 1986 and 1987 are not yet available, estimates show that the food and beverage industry is expanding again. Shipments for 1986 were estimated at $4.1 billion, and at $4.6 billion for 1987. After inflation, the value of shipments increased by 1.5 per cent in 1986, consistent with growth in the provincial economy (GDP). Beverage shipments were expected to exceed $46 million in 1986, up 38 per cent from 1985. Growth in the feed industry is also expected.

Among shipments from all manufacturing, foods and beverages increased in importance during 1985 and 1986, reversing the trend of the early 1980's. Estimates for 1987 predict food and beverage shipments to be 28 per cent of the province's total manufactured shipments. This proportion roughly equals the 1981 level, when the economy was strong.

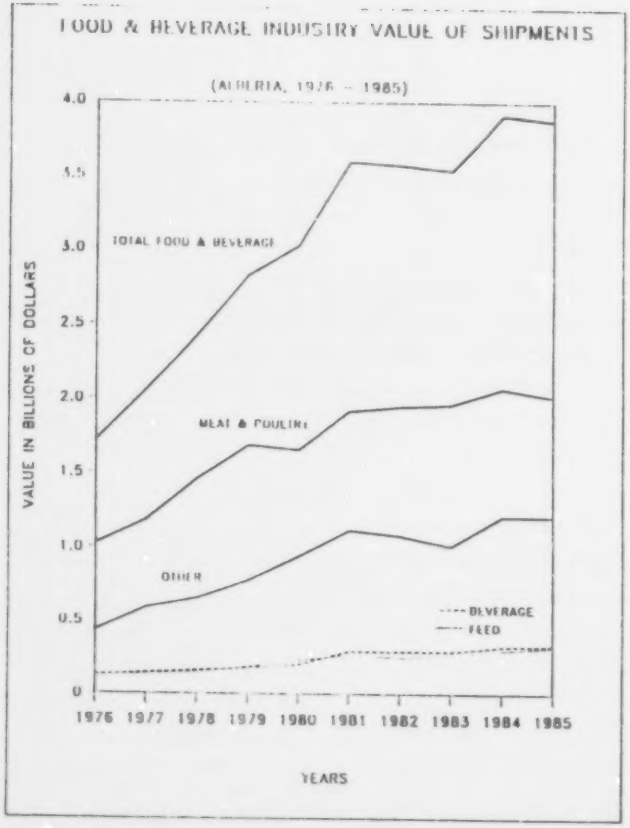
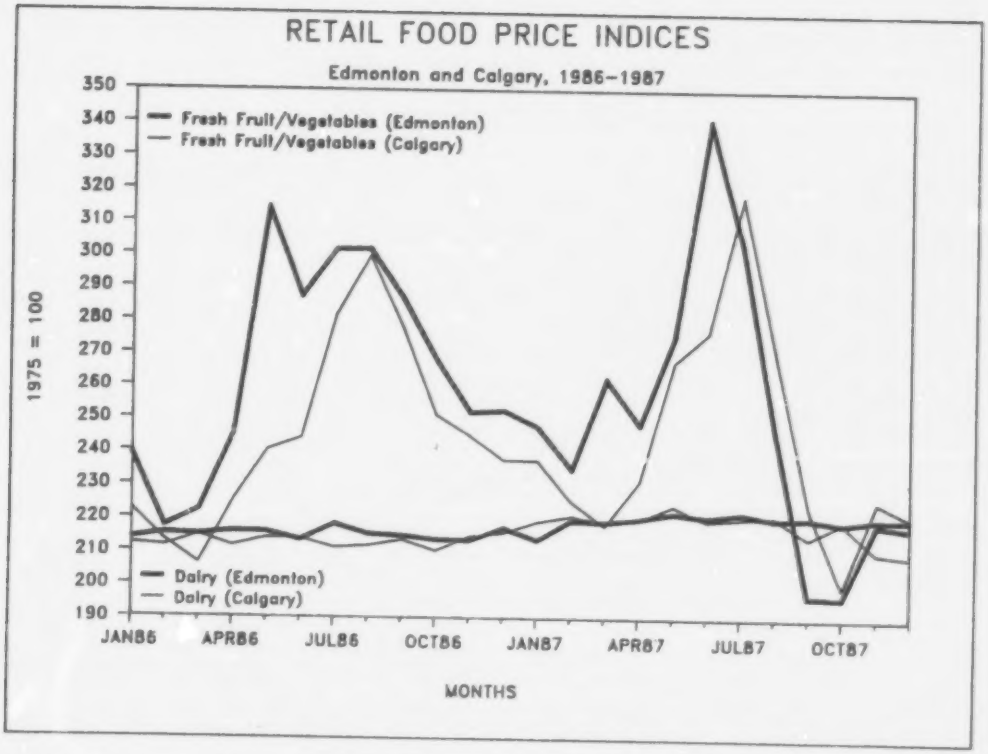


Table 74
FOOD AND BEVERAGE INDUSTRY

	Establishments		Value of Shipments Of Own Manufacture	
	1984	1985	1984	1985
	- number -		- $'000 -	
Meat & Meat Products	71	69	1,938,709	1,883,956
Poultry Products Industry	6	6	127,984	124,218
Fish and Fish Products Industry	0	1	0	*
Fruit & Vegetable Industries	6	8	*	52,739
Fluid Milk Industry	4	4	*	*
Other Dairy Products Industry	30	29	272,164	279,130
Cereal Grain Flour Industry	3	3	94,835	94,403
Prepared Flour Mixes & Cereal Foods	2	2	*	*
Feed Industry	69	69	300,576	320,671
Vegetable Oil Mills (Exc. Corn Oil)	4	5	*	*
Biscuit Industry	3	3	*	*
Bread & Other Bakery Products	36	38	92,734	86,048
Sugar & Confectionery Industry	3	3	*	*
Tea & Coffee Industry	1	1	*	*
Dry Pasta Products Industry	4	4	*	*
Potato Chip, Pretzel & Popcorn	3	3	*	*
Other Food Products n.e.s. (Incl. Malt)	19	18	82,438	72,937
Soft Drink Industry	13	13	137,242	144,575
Distillery Products Industry	3	3	*	*
Brewery Products Industry	5	5	131,090	117,010
Wine Industry	3	3	*	*
TOTAL	288	290	3,909,313	3,872,286

* Confidential



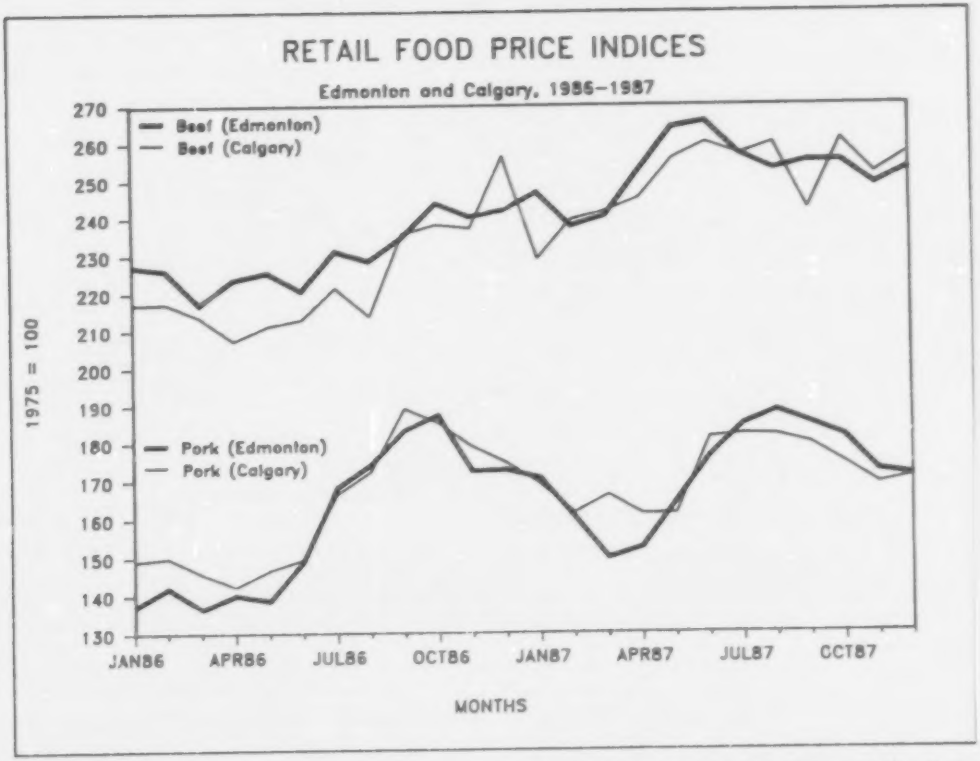
Retail prices of over 60 food items are collected each week at representative stores for the major food chains in Edmonton and Calgary. The prices are weighted to account for estimated market share held by each chain as well as the relative importance of each item in the total food at home budget.

Dairy

The retail price index of dairy products, which remained almost steady over the two year period, ended 1987 less than 6 points higher than it began in 1986. Edmonton and Calgary retail price indices for dairy products over the two years differed marginally due in part to promotional activity.

Fresh Fruit and Vegetables

The fresh fruit and vegetable retail price indices for Edmonton and Calgary continued their cyclical trends by peaking in early summer of each year. In the fall of 1987, larger supplies of domestic storable vegetables and apples contributed to a crop in the indices for both cities to their lowest point in the two year period. The increase in the indices from October, 1987 to the end of the year were due to higher prices for imported salad vegetables caused by adverse weather conditions.



Pork

The retail price index of pork followed a very similar pattern in both Edmonton and Calgary in 1986 and 1987. Disruptions in slaughterings in the summer of 1986 caused a significant rise in the index until October, 1986. This was followed by a steady decline in the index to the spring of 1987. Lower than anticipated pork production over the first half of 1987 then caused a substantial increase in the index until the fall of 1987 when increased production exerted downward pressure on pork prices to the end of the year. Extensive promotions of cured pork in Edmonton was the cause for the April, 1987 index to drop more than 10 points below that of Calgary.

Beef

The retail price index of beef showed moderate increase over the two year period. Seasonally higher prices for barbecue preferred cuts are reflected in the increased retail beef index during the summer months. The retail beef index followed a similar pattern in Edmonton and Calgary with only slight deviations.

AGRICULTURAL EXPORTS

OUT OF PROVINCE SHIPMENTS

The estimated value of out-of-province shipments for 1987 was $2,842 million which represented a slight decline over the $2,851 million 1986 estimate.

Grains and oilseeds accounted for 39 per cent of the total value of shipments which was similar to the per cent estimate of 1986. Meat and animal products accounted for 37 per cent of the value of shipments while live animals made up a further 10 per cent of the total. Forage seeds, other crops and crop products represented 12 per cent of the total value of shipments.

OUT-OF-COUNTRY-EXPORTS

Highlights

The value of out-of-country exports of primary and processed agricultural products in 1987 was $1,821 million or 64 per cent of out-of-province shipments. This represented an increase over 1986 which saw out-of-country exports of $1,663 million or 57 per cent of out-of-province shipments.

The corresponding out-of-country export value for Canadian exports was $9,603 million, a 6 per cent rise over the previous year's value of $9,042 million. Alberta's share of Canadian agricultural exports was approximately 19 per cent.

Wheat exports, valued at $677 million, continue to be the major agricultural export earner for the province accounting for 37 per cent of export revenues. This is a significant increase over 1986 which saw wheat exports valued at $589 million.

Canola and canola products contributed 17 per cent of export earnings with a value of $309 million. This was an increase from $268 million in 1986.

Alberta barley exports were $195 million in 1987, representing 11 per cent of agricultural exports. This was a drop from 1986 levels due to significant declines in barley volumes and prices during the year.

Lower world prices for grains and oilseeds throughout 1987, rather than dwindling markets, was the major factor limiting export earnings from these crops.

Live animal exports from Alberta (primarily cattle and hogs) were valued at $127 million in 1987. This was below the 1984 record of $138 million but above the $115 million for 1986.

Meats and meat preparations showed a substantial increase over the previous year. In 1986, the value was $175 million. In 1987, this figure rose to $205 million or 11 per cent of total export earnings for the province.

Together, live animals and meats contributed $332 million, a 12 per cent increase over $296 million for 1986.

Canola oil showed a drop in export value, largely due to depressed prices. In 1987, exports were valued at $60 million, compared with $72 million in 1986. Canola meal showed a significant increase in value in 1987 to over $56 million from the previous $30 million.

Honey exports were close to $4 million in 1987, down from $5 million in 1986 and $6.5 million in 1985.

Other important Alberta agricultural exports in 1987 were cattle hides, whiskey, malts, peat moss, tallow, forage seed, semen and embryos.

TRADING PARTNER ANALYSIS

In 1987, Alberta's most important export markets

were the U.S.A., Japan, People's Republic of China, U.S.S.R., Saudi Arabia, South Korea, Taiwan, Mexico and Brazil. These ten nations purchased almost 80 per cent of Alberta's agricultural exports.

U.S.A.

The U.S.A. was the major market for Alberta agricultural exports in 1987, purchasing a wide variety of primary and processed products from the province. Exports to the U.S.A. were over $440 million in 1987, up substantially from $372 million in 1986. Increases in shipments of livestock, meats and canola products were largely responsible for the increase in export value.

A rise in cattle exports was a primary factor in the 6 per cent increase in live animal exports. Swine exports to the U.S.A. dropped slightly in 1987, but were more than offset by an increase in live hog shipments. Meat and meat preparations, valued at $148 million, were 15 per cent above 1986 levels and remained the largest export category to the U.S.A.

Other agricultural commodities that enjoyed success in the U.S. market in 1987 included forage seeds, canola meal, peat moss and canola oil.

Low global grain prices in 1987 highlighted the importance of the U.S. market in that the declines due to low grain prices did not affect the value of exports to the U.S.A. Continued growth in exports from Alberta to the U.S.A. illustrate the degree to which Alberta products are being accepted in the North American market.

JAPAN

Japan imported over $354 million of food and agricultural products from Alberta, down marginally from 1986 levels. Canola, the largest single agricultural import from the province, was valued at $146 million. Barley declined to $31 million. A slight increase in the amount of wheat exported from the province was realized but due to low grain prices, the export volume dropped to $60 million.

Japan continues to be a reliable market for meats, barley malt, dehydrated alfalfa, hides and canola products.

PEOPLE'S REPUBLIC OF CHINA

Alberta's exports of agricultural commodities to the People's Republic of China increased from $96 million in 1986 to $173 million in 1987, largely due to an increase in wheat shipments. The value of exports of wheat from the province rose from $79 million in 1986 to $151 million in 1987, almost a two-fold increase. As in 1986, China purchased $12 million of barley in 1987.

U.S.S.R.

U.S.S.R. imports of Alberta agricultural products totalled over $161 million in 1987, a 32 per cent drop from the previous year. Exports of barley to the Soviet Union declined to $26 million in 1987, while wheat values fell to $134 million.

SAUDI ARABIA

Saudi Arabia substantially increased their purchases of Alberta barley. In 1987, the value of barley imports almost doubled to reach $68 million despite decreases in price.

SOUTH KOREA

Total agricultural and food exports from the province to South Korea were $60 million in 1987, a 67 per cent increase over $36 million in 1986. Both the values of wheat and raw hides and skins almost doubled from 1986 levels to reach $33 million and $22 million, respectively.

TAIWAN

The major Alberta commodity exported to Taiwan was hides and fur skins which was up 29 per cent from 1986 levels to $36 million. Total exports from the province were $46 million, including wheat, barley and canola meal.

E.E.C. AND OTHER WESTERN EUROPE

Exports to Western Europe increased by 6 per cent in 1987 to $133 million, representing 7.3 per cent of the Alberta total. Primary commodities shipped to this region include grains and meats.

EASTERN EUROPE (excluding U.S.S.R.)

Exports to Eastern European nations, other than the U.S.S.R., were $24 million in 1987, down from $62 million a year earlier due to a decline in grain imports from Alberta. This accounts for 13 per cent of provincial exports.

MIDDLE EAST (excluding Saudi Arabia)

Exports from Alberta to the Middle East increased by 63 per cent in 1987 to over $65 million, mainly on the strength of increased wheat sales to Iran.

AFRICA

Alberta exports to Africa declined by 13 per cent in 1987 to $46 million, mainly due to a drop in volumes and prices of wheat.

ASIA-PACIFIC (excluding Japan, P.R. China, S. Korea and Taiwan)

Exports to countries in this region were estimated to be $96 million, a 16 per cent increase over 1986. Increases in shipments of canola, canola products and wheat were largely responsible for the change.

SOUTH AMERICA

Exports from Alberta to South American nations rose to $71 million in 1987 from $52 million the previous year, primarily from increases in wheat and barley exports.

CENTRAL AMERICA AND THE CARIBBEAN

Exports to this region increased to $89 million in 1987 from $72 million in 1986. A $24 million rise in canola exports to Mexico was a major factor.

SUMMARY

In 1987, Alberta agricultural exports to the U.S.A. increased again, making the U.S.A. the most important export market for the province, both in terms of dollar value and variety. Consequently, exports do not suffer from the variability that is more evident with shipments to countries such as the Soviet Union, Japan and China whose imports depend substantially on supplies and prices of grains and oilseeds.

COMMODITY ANALYSIS

The five major commodities or commodity groups, accounting for about 77 per cent of Alberta's agricultural export sales in 1987, were wheat (37 per cent), meats (11 per cent), barley (11 per cent), canola (10.5 per cent), and live animals (7 per cent).

WHEAT

Wheat accounted for over one-third of the value of exports originating in the province which was similar to the ratio in 1986. The major customers for Alberta wheat were the People's Republic of China, U.S.S.R., Japan, Cuba, South Korea, Brazil and Iraq. In 1987, China increased her imports of wheat substantially, becoming the province's most important

market with 22 per cent ($151 million) of our wheat exports. The U.S.S.R. took a further 20 per cent ($134 million) while Japan accounted for 9 per cent ($60 million). Others included Cuba (6 per cent), South Korea (5 per cent), Brazil (4 per cent), and Iraq (3 per cent).

In 1987, it is estimated that 4.7 million tonnes of wheat were exported from the province for a total value of $677 million.

BARLEY

In 1987, Saudi Arabia increased its level of barley purchases substantially. Valued at over $67 million, Saudi Arabian imports of Alberta barley increased two-fold over the previous calendar year. Japan also purchased substantial amounts of barley as did the U.S.S.R., China and U.S.A. In total, exports of barley from the province were $195 million compared to $248 million for 1986. The quantity reduction is not as drastic, with 2.3 million tonnes exported in 1987 versus 2.6 million the previous year.

CANOLA

Japan is the dominant purchaser of Alberta canola with an increase in purchases from 553 thousand tonnes in 1986 to 601 thousand tonnes in 1987. However, because of the depressed global situation for oilseeds, the export value to Japan dropped slightly. With purchases amounting to $146 million, Japan accounted for 76 per cent of provincial canola exports. Mexico took a further 18 per cent and the Netherlands 1.5 per cent.

CANOLA OIL AND MEAL

Exports of canola products in 1987 amounted to $102 million or no change from the year before. India accounted for over 13 per cent of the value of canola product exports. Japan imported 20 per cent and the U.S.A. took 27 per cent, mainly due to an increase in canola meal exports.

LIVESTOCK, MEAT AND ANIMAL PRODUCTS

The U.S.A. continued to be the dominant market for live animals and meat products in 1987. Of the live animal exports, 98 per cent went to the U.S.A., who also had 72 per cent of the meat exports. Primarily, the U.S.A. imported beef and pork while horse meat exports went to Europe and Japan.

SUMMARY

Although export volumes for the grains and oilseeds increased in 1987, the decline in price levels resulted in lower values for export. If grains and oilseed prices improve in the near term, total export values should improve significantly in the coming years.

REGIONAL ANALYSIS

In 1987, Asia imported $729 million or 40 per cent of the total provincial agricultural exports. The bulk of these purchases were grains, oilseeds and related products.

North America (U.S.A., Greenland, St. Pierre-Miq.) imported $440 million or 24 per cent, much of it livestock and meat related.

Eastern Europe was the third largest importing region for Alberta's agricultural commodities with purchases of $185 million (10 per cent). The majority of these exports were accounted for by wheat exports to the U.S.S.R.

Exports to Western Europe were valued at $133 million or 7 per cent, consisting mainly of wheat, barley and meat.

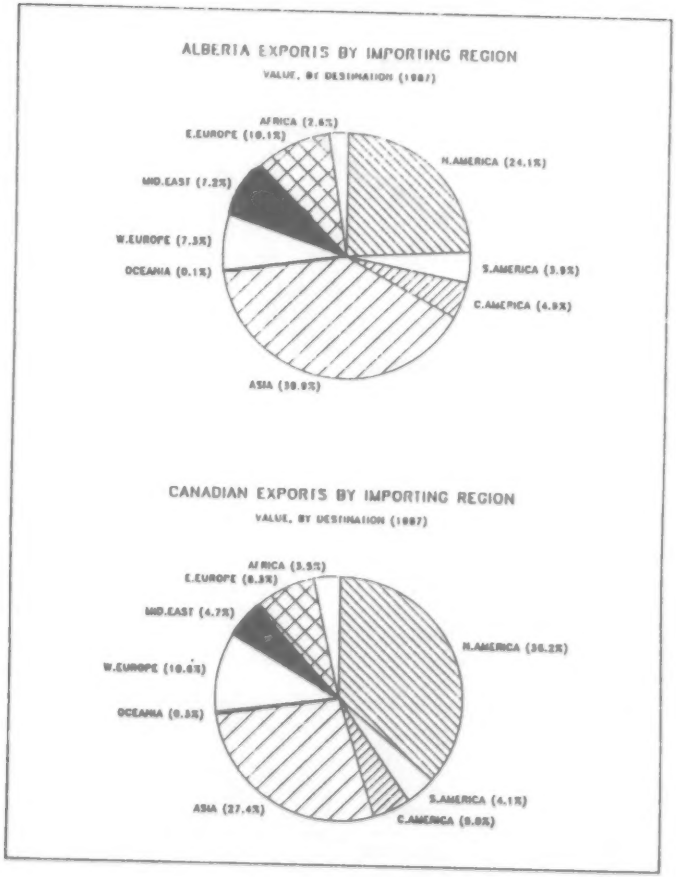
The Middle East purchased $132 million (7 per cent) of Alberta's agricultural exports in 1987.

These were mainly wheat and barley.

Central America, with imports of mainly wheat and canola, accounted for 5 per cent of provincial exports with $89 million.

Exports to South America were almost 4 per cent or $71 million, and consisted mainly of wheat and canola oil.

Africa imported $46 million (2.5 per cent) worth of Alberta products, consisting mostly of wheat and wheat flour.



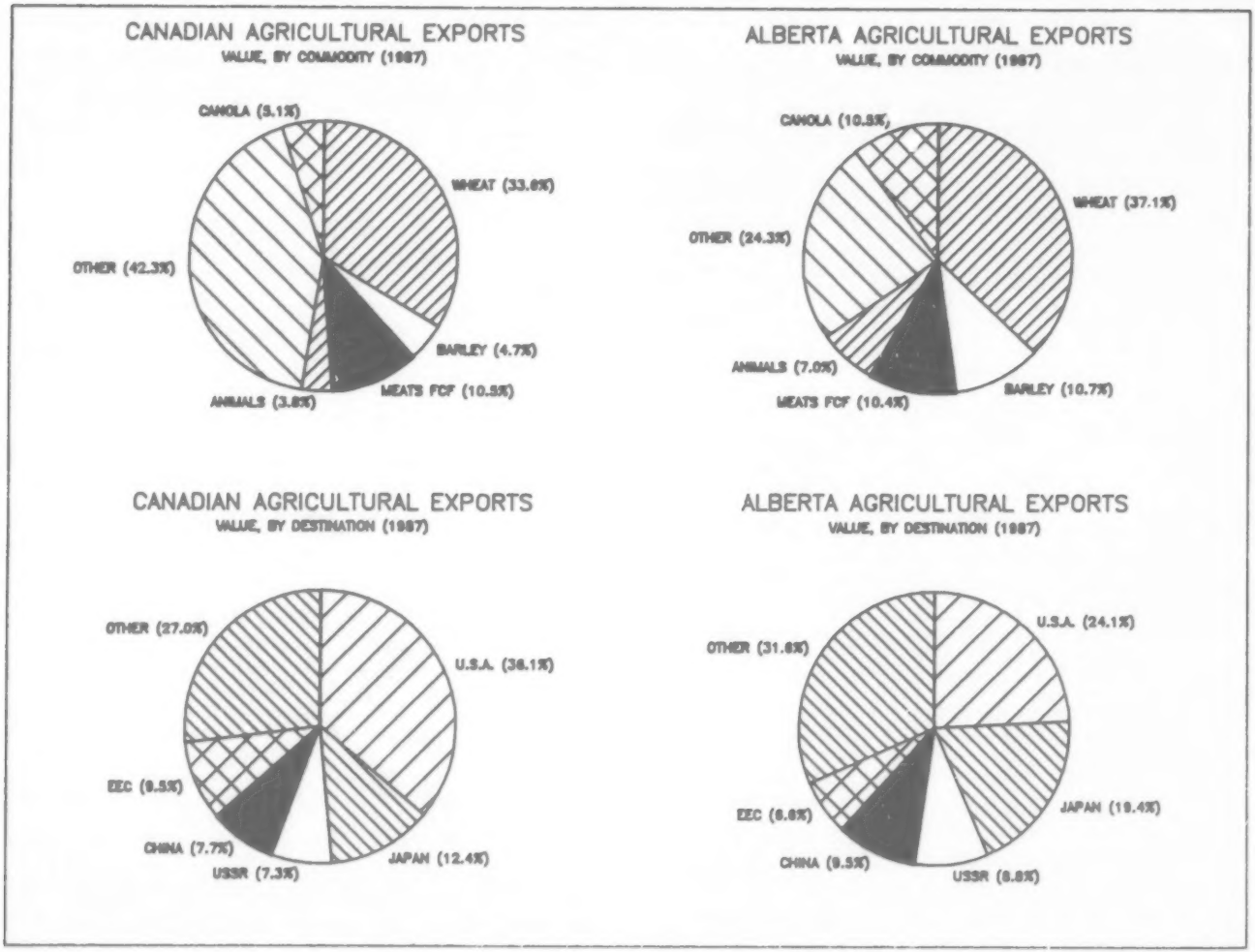

CANADIAN AGRICULTURAL EXPORTS
VALUE, BY COMMODITY (1987)
CANOLA (5.1%)
WHEAT (33.6%)
OTHER (42.3%)
BARLEY (4.7%)
ANIMALS (3.8%)
MEATS FOF (10.5%)
ALBERTA AGRICULTURAL EXPORTS
VALUE, BY COMMODITY (1987)
CANOLA (10.5%)
WHEAT (37.1%)
OTHER (24.3%)
ANIMALS (7.0%)
MEATS FOF (10.4%)
BARLEY (10.7%)
CANADIAN AGRICULTURAL EXPORTS
VALUE, BY DESTINATION (1987)
OTHER (27.0%)
U.S.A. (36.1%)
EEC (9.5%)
CHINA (7.7%)
USSR (7.3%)
JAPAN (12.4%)
ALBERTA AGRICULTURAL EXPORTS
VALUE, BY DESTINATION (1987)
U.S.A. (24.1%)
OTHER (31.6%)
JAPAN (19.4%)
EEC (6.6%)
CHINA (9.5%)
USSR (8.8%)

Table 75
ESTIMATES OF OUT-OF-PROVINCE SHIPMENTS

Commodity	Quantity		Value	
	1986	1987	1986	1987
	- '000 tonnes -		- $'000 -	
Wheat	3 716	5 700	644,964	677,136
Oats	165	237	17,100	22,863
Barley	3 192	3 421	307,165	195,455
Rye	42	43	4,766	4,171
Flaxseed	26	26	7,035	5,273
Canola	678	848	180,597	203,229
Mustard Seed	21	29	8,573	8,438
Forage Seeds	13	16	24,216	32,763
Potatoes	10	10	2,938	2,195
Alfalfa, dehydrated	130	114	19,775	19,578
Honey	10	9	14,456	11,156
Wheat Flour	97	104	38,706	37,963
Malt and Malt Flour	88	88	24,742	24,548
Canola Oil Cake and Meal	346	350	61,169	57,270
Canola Oil	249	317	124,139	128,923
Other Crops and Crop Products	47	89	17,653	26,521
Beef and Veal	250	235	736,935[r]	686,618
Pork	44	73	107,000	163,676
Other Meats	13	16	36,744	51,924
Other Animal Products	n/a	n/a	154,495	164,231
Cattle (Number)	351,464	318 339	247,401	234,478
Swine (Number)	140,000	261 373	23,065	41,182
Other Live Animals	n/a	n/a	6,529	6,451
Peat Moss	64	54	15,750	13,500
Whiskey	n/a	n/a	25,573	22,223
TOTAL			2,851,486[r]	2,841,765

r revised
n/a - not available

Table 76
EXPORT ESTIMATES — ALL COUNTRIES

	Alberta		Western Canada		Canada	
	1986	1987	1986	1987	1986	1987
			- thousands of dollars -			
Live Animals	118,965	127,298	204,218	225,013	349,626	367,747
Meat, Fresh, Chilled or Frozen	166,037	190,577	324,852	366,695	940,932	1,006,342
Other Meat and Meat Preparations	9,371	14,289	28,817	37,056	58,355	73,286
Dairy Produce, Eggs and Honey	5,072	3,962	28,428	26,666	231,777	185,517
Barley	247,698	195,329	568,378	448,208	568,378	448,208
Wheat	588,734	677,025	2,758,718	3,172,211	2,835,810	3,223,958
Other Cereals, Unmilled	18,138	27,094	56,414	76,304	129,950	109,534
Hard Spring Wheat Flour	9,740	10,121	18,718	14,181	69,615	54,246
Other Cereals, Milled	24,817	24,555	36,053	42,529	62,573	67,209
Cereal Preparations	2,072	2,068	9,229	10,470	172,643	191,638
Fruit and Fruit Preparations	409	72	71,884	77,412	135,901	155,226
Vegetables and Vegetable Preparations	15,157	22,644	106,758	153,497	377,210	421,906
Sugar and Sugar Preparations	239	327	4,891	5,437	256,395	222,710
Other Foods and Materials for Foods	1,484	1,619	11,485	13,887	301,128	313,134
Oilseed Cake and Meal	30,532	56,485	50,372	71,194	58,417	86,736
Other Feeds of Vegetable Origin	23,363	27,173	79,673	79,489	128,919	125,882
Other Fodder and Feeds	2,869	4,904	52,730	53,679	105,119	111,670
Whiskey	25,572	22,222	41,232	38,940	322,046	338,090
Other Beverages	568	3,197	13,305	21,662	217,458	234,342
Tobacco	4	285	1,110	4,256	138,815	140,078
Raw Hides and Skins	67,288	85,333	138,236	130,077	217,825	239,684
Fur Skins Undressed	452	784	5,451	13,414	101,177	185,522
Other Crude Animal Products	1,660	2,815	4,485	7,225	53,233	62,644
Seeds for Sowing	19,228	27,233	45,424	62,975	55,263	76,086
Flaxseed	7,035	5,275	196,507	147,357	196,507	147,357
Canola	165,679	192,444	422,333	490,554	422,333	490,554
Other Oilseeds, Oil Nuts and Oil Kernels	9,365	8,863	29,848	38,205	99,983	99,636
Other Crude Vegetable Products	14,061	13,894	28,073	34,590	190,871	196,982
Oils, Fats, Waxes, Extracts and Derivatives	86,962	77,995	157,270	145,815	244,129	227,044
TOTAL	1,662,571	1,825,882	5,494,904	6,008,998	9,042,388	9,602,968

CENSUS AND COMPARATIVE DATA

Table 77
CENSUS DATA

		1971	1976*	1981*	1986*
Total Population	no.	1,627,874	1,838,037	2,237,724	2,375,278
Farm Population	no.	237,924	219,302	195,284	183,830
Number of Farms	no.	62,702	61,130	58,056	57,777
Average Size of Farm	ac.	790	817	813	883
Average Value of Agricultural Products Sold per Farm	$	13,273	n/a	56,236	77,433
Farm Classification:					
Under 10 Acres	%	1.4	1.2	1.5	1.8
10 - 69 Acres	%	4.0	5.8	5.8	5.8
70 - 239 Acres	%	16.9	18.9	21.4	21.8
240 - 399 Acres	%	20.1	17.8	16.2	15.1
400 - 559 Acres	%	14.6	13.0	11.8	10.8
560 - 759 Acres	%	13.1	11.9	11.0	10.6
760 - 1,119 Acres	%	13.5	13.4	13.1	12.7
1,120 - 1,599 Acres	%	7.7	8.2	8.6	8.9
1,600 - 2,239 Acres	%	4.0	4.3	4.9	5.4
2,240 - 2,879 Acres	%	1.7	2.0	2.1	2.6
2,880 Acres and Over	%	3.0	3.5	3.6	4.4
Farm Operated by:					
Owner	%	59.3	60.4	58.3	52.4
Tenant	%	6.7	6.3	6.3	7.0
Owner-Tenant	%	34.9	33.3	35.5	40.6

		1971	1976*	1981*	1986*
Age of Farm Operators:					
Under 25 Years	%	2.5	3.6	3.5	2.6
25 - 34 Years	%	14.2	16.3	17.9	17.1
35 - 44 Years	%	24.1	24.0	23.5	22.9
45 - 54 Years	%	28.6	27.1	26.0	24.1
55 - 59 Years	%	11.5	11.3	11.3	11.8
60 - 64 Years	%	9.1	8.5	8.7	9.8
65 - 69 Years	%	5.8	5.0	5.2	6.1
70 Years and Over	%	4.2	4.2	3.9	5.6
Average Age of Farm Operator	yrs.	49	47	46	48
Occupied Farm Land	'000 ac.	49,506	49,929	47,218	51,040
Improved Farm Land	'000 ac.	28,460	29,302	30,951	31,892
Field Crops	'000 ac.	18,092	18,877	20,859	22,641
Wheat Total	'000 ac.	3,443	5,545	6,705	7,602
(Durum)	'000 ac.	(242)	(n/a)	(506)	(639)
Oats for Grain	'000 ac.	1,864	1,794	1,311	1,183
Barley for Grain	'000 ac.	5,689	5,630	6,433	5,568
Mixed Grain	'000 ac.	419	268	145	122
Fall Rye	'000 ac.	226	)	241	169
Spring Rye	'000 ac.	24	) 181	52	45
Flaxseed	'000 ac.	271	73	102	85
Canola/Rapeseed	'000 ac.	1,988	740	1,455	2,803
Tame Hay	'000 ac.	3,260	3,850	3,481	3,734
Sugar Beets	'000 ac.	43	42	36	30
Improved Pasture	'000 ac.	2,745	3,278	3,908	3,402
Summerfallow	'000 ac.	7,009	6,494	5,450	5,256
Other Improved Land	'000 ac.	614	653	734	592
Unimproved Land	'000 ac.	21,046	20,627	16,267	19,149

		1971	1976*	1981*	1986*
Livestock and Poultry:					
Cattle and Calves	'000 head	3,702	4,614	4,193	3,827
Pigs	'000 head	1,816	878	1,199	1,455
Sheep	'000 head	245	189	201	179
Horses	'000 head	89	90	119	135
Hens and Chickens	'000 head	7,923	7,981	9,190	8,852
Turkeys	'000 head	896	822	903	763
Farm Machinery:					
Tractors	no.	111,256	118,987	124,214	150,479
Grain Combines	no.	42,373	42,984	42,663	42,970
Swathers	no.	40,749	44,227	47,601	49,144
Motor Trucks	no.	93,471	112,836	123,835	146,309
Farm Capital:					
Land and Building	$'000	3,530,252	10,627,528	29,961,159	20,773,520
Machinery and Equipment	$'000	867,446	2,110,053	4,362,215	5,382,302
Livestock and Poultry	$'000	803,855	1,124,065	2,503,766	2,467,592
Total Capital Value	$'000	5,201,553	13,861,646	36,827,140	28,623,414
Average Per Farm	$'000	83	227	634	495

* The 1976, 1981 and 1986 census-farm definition differs from that used in previous censuses. To help users relate to previous censuses, the data in this report represents "all agricultural holdings".

n/a - not available

Table 78
COMPARATIVE STATISTICS

		Alberta	Alberta as Per Cent of Prairie Provinces	Alberta as Per Cent of Canada
		CENSUS STATISTICS 1986		
Total Population	no.	2,375,278	53.3	9.4
Number of Farms	no.	57,777	38.9	19.7
Total Land Area	ac.	157,710,720	36.3	6.9
Occupied Farm Land	ac.	51,040,463	37.6	30.5
Per Cent of Total Land Occupied	%	32.4	-	-
Improved Land	ac.	31,891,516	33.7	28.1
Unimproved Land	ac.	19,148,947	46.6	35.5
		CROP AREA 1987		
Winter Wheat	ac.	470,000	49.2	35.7
Spring Wheat	ac.	6,000,000	22.8	22.5
Durum Wheat	ac.	800,000	14.8	14.8
All Wheat	ac.	7,270,000	22.2	21.8
Oats for Grain	ac.	1,200,000	47.6	38.6
Barley for Grain	ac.	5,700,000	50.3	45.8
All Rye	ac.	220,000	30.3	28.4
Mixed Grains	ac.	150,000	51.7	15.5
Flaxseed	ac.	70,000	4.6	4.6
Canola/Rapeseed	ac.	2,850,000	43.4	43.2
Corn for Grain	ac.	9,000	15.3	0.3
Peas,dry	ac.	70,000	11.1	11.1
Lentils	ac.	50,000	8.2	8.2
Mustard Seed	ac.	50,000	18.2	18.2
Tame Hay	ac.	4,350,000	49.8	30.6
Fodder Corn	ac.	18,000	25.7	2.9
Sugar Beets	ac.	29,500	52.6	52.6
Potatoes	ac.	23,500	29.3	8.3
Summerfallow	ac.	5,300,000	24.7	24.7

		Alberta	Alberta as Per Cent of Prairie Provinces	Alberta as Per Cent of Canada
LIVESTOCK ON FARMS, JULY 1, 1987				
Bulls	no.	80,000	50.0	36.9
Milk Cows and Heifers	no.	178,000	38.9	8.6
Beef Cows and Heifers	no.	1,567,000	49.1	41.7
Heifers for Slaughter	no.	270,000	61.6	38.5
Steers	no.	435,000	56.4	35.8
Calves	no.	1,270,000	48.9	35.4
Total Cattle and Calves	no.	3,800,000	49.9	32.5
Hogs - Breeding Stock 6 Months and Over	no.	184,000	44.6	16.3
All Other Pigs	no.	1,441,000	44.5	15.7
Total Hogs	no.	1,625,000	44.5	15.8
Sheep One Year and Over	no.	83,900	56.7	22.9
Lambs Under One Year	no.	106,100	61.7	32.0
Total Sheep and Lambs	no.	190,000	59.4	27.3

Table 79
CANADIAN — METRIC CONVERSIONS

AREA		
1 hectare	2.47109	acres
	0.00368	square mile
1 square kilometre	0.36810	square mile
1 acre	0.40468	hectare
1 square mile (640 acres)	259	hectares
	2.59	square kilometres
1 arpent	0.871	acre
WEIGHT		
1 kilogram	2.2046	pounds
1 tonne (1 000 kg)	2204.622	pounds
	22.046	short hundred-weights
	19.684	long hundred-weights
	1.10231	short tons
	0.98420	long ton
1 pound	0.45359	kilogram
1 short hundredweight (100 lb.)	0.045359	tonne
1 long hundredweight (112 lb.)	0.050802	tonne
1 short ton (2,000 lb.)	0.90718	tonne
1 long ton (2,240 lb.)	1.01605	tonne

Table 80
WEIGHT EQUIVALENTS OF SELECTED COMMODITIES

Wheat		
1 bushel	0.027216	tonne
1 tonne	36.744	bushels
Oats		
1 bushel	0.015422	tonne
1 tonne	64.842	bushels
Barley		
1 bushel	0.021773	tonne
1 tonne	45.930	bushels
Rye, Flaxseed and Corn		
1 bushel	0.0254	tonne
1 tonne	39.368	bushels
Canola/Rapeseed		
1 bushel	0.02268	tonne
1 tonne	44.092	bushels
Mixed Grain		
1 bushel	0.020412	tonne
1 tonne	48.992	bushels

Table 81
PRINCIPAL FIELD CROPS IN METRICS

Census Division	Area 1986	Area 1987	Yield Per Hectare 1986	Yield Per Hectare 1987	Production 1986	Production 1987
	- hectares -		- tonnes -		- tonnes -	
			ALL WHEAT			
1	291 000	295 000	2.18	2.01	636 000	592 000
2	413 000	419 000	2.57	2.65	1 062 000	1 109 000
3	163 000	194 000	2.34	2.02	379 000	392 000
4	257 000	294 000	1.71	1.24	438 000	366 000
5	478 000	485 000	2.82	2.17	1 343 000	1 054 000
6 & 15	145 000	114 000	3.13	2.47	454 000	282 000
7	420 000	346 000	2.45	1.55	1 025 000	537 000
8 & 9	42 000	28 000	3.43	2.86	144 000	80 000
10	354 000	334 000	2.53	1.89	892 000	630 000
11	59 000	41 000	3.00	2.51	177 000	103 000
12 & 16	46 000	35 000	2.13	1.97	98 000	69 000
13) 14)	38 500	25 000	2.69	2.60	101 000	65 000
17, 18, 19	329 000	332 000	1.83	2.13	599 000	708 000
Province	3 035 000	2 942 000	2.43	2.04	7 348 000	5 987 000
			OATS FOR GRAIN			
1	8 000	2 000	2.08	2.00	16 000	4 000
2	13 000	7 000	2.61	2.57	34 000	18 000
3	25 000	10 000	2.04	2.30	51 000	23 000
4	31 000	11 000	2.03	1.36	63 000	15 000
5	20 000	14 000	3.05	2.64	61 000	37 000
6 & 15	51 000	24 000	3.14	2.96	160 000	71 000

Census Division	Area 1986	Area 1987	Yield Per Hectare 1986	Yield Per Hectare 1987	Production 1986	Production 1987
	- hectares -		- tonnes -		- tonnes -	
		OATS FOR GRAIN (cont'd.)				
7	76 000	60 000	2.90	2.17	219 000	130 000
8 & 9	42 000	35 000	3.10	3.06	130 000	107 000
10	96 000	82 000	2.92	2.46	280 000	202 000
11	65 000	62 000	3.23	2.89	210 000	179 000
12 & 16	64 000	43 000	2.58	2.33	165 000	100 000
13) 14)	57 000	63 000	2.98	2.68	170 000	169 000
17, 18, 19	59 000	73 000	2.32	2.66	137 000	194 000
Province	607 000	486 000	2.80	2.57	1 696 000	1 249 000
		BARLEY FOR GRAIN				
1	17 000	22 000	2.94	3.23	50 000	71 000
2	119 000	124 000	3.56	3.90	424 000	483 000
3	162 000	156 000	2.78	3.08	450 000	481 000
4	28 000	17 000	2.57	1.76	72 000	30 000
5	178 000	180 000	3.58	3.09	637 000	557 000
6 & 15	220 000	247 000	3.78	3.41	834 000	842 000
7	133 000	164 000	3.38	2.60	450 000	426 000
8 & 9	242 000	257 000	3.57	3.43	865 000	882 000
10	261 000	296 000	3.44	2.74	898 000	812 000
11	226 000	208 000	3.54	3.19	800 000	663 000
12 & 16	106 000	101 000	2.88	2.54	306 000	257 000
13) 14)	208 000	198 000	3.20	2.98	665 000	590 000
17, 18, 19	405 000	337 000	2.45	2.46	995 000	829 000
Province	2 307 000	2 307 000	3.23	3.00	7 446 000	6 923 000

A.R.A.	Area		Yield Per Hectare		Production	
	1986	1987	1986	1987	1986	1987
	- hectares -		- tonnes -		- tonnes -	
			FLAXSEED			
1	3 500	4 600	1.57	1.93	5 500	8 900
2	17 300	10 600	1.55	1.42	26 800	15 000
3	2 400	1 600	1.13	1.19	2 700	1 900
4A	4 200	5 200	1.43	1.25	6 000	6 500
4B	1 900	3 000	1.21	1.43	2 300	4 300
5	700	700	1.57	1.43	1 100	1 000
6	1 300	700	1.23	1.43	1 600	1 000
7	5 100	1 900	0.94	1.00	4 800	1 900
Province	36 400	28 300	1.40	1.43	50 800	40 500
			CANOLA / RAPESEED			
1	8 100	13 000	1.70	1.92	13 800	25 000
2	79 100	94 700	1.75	1.75	138 400	165 700
3	59 700	73 000	1.52	1.51	90 500	110 100
4A	178 000	189 500	1.55	1.49	276 200	281 500
4B	249 100	236 900	1.41	1.42	352 300	337 200
5	174 300	126 200	1.50	1.46	261 000	184 000
6	131 200	93 800	1.25	1.38	163 800	129 400
7	314 500	325 900	1.15	1.23	360 000	400 000
Province	1 194 000	1 153 000	1.39	1.42	1 656 000	1 632 900

A.R.A.	Area		Yield Per Hectare		Production	
	1986	1987	1986	1987	1986	1987
	- hectares -		- tonnes -		- tonnes -	
			ALL RYE			
1	17 500	17 500	1.58	1.49	27 700	26 000
2	34 800	25 500	2.49	1.67	86 800	42 700
3	24 300	18 300	2.78	2.08	67 600	38 000
4A	14 600	18 200	1.96	1.55	28 600	28 300
4B	1 200	2 900	2.17	1.76	2 600	5 100
5	5 900	3 300	2.93	2.03	17 300	6 700
6	800	1 500	2.25	1.80	1 800	2 700
7	2 100	2 000	1.81	1.45	3 800	2 900
Province	101 200	89 200	2.33	1.71	236 200	152 400
			TAME HAY			
1	58 900	89 500	4.34	6.37	255 800	570 200
2	128 900	132 900	6.91	6.59	890 900	875 900
3	165 600	168 000	5.09	4.02	843 700	674 600
4A	70 500	86 100	3.73	1.95	263 200	168 000
4B	94 900	98 100	4.43	4.38	420 500	429 200
5	371 400	414 900	5.64	5.11	2 094 300	2 120 900
6	401 900	414 800	4.48	4.66	1 801 400	1 934 100
7	326 500	355 700	4.05	3.90	1 323 200	1 387 500
Province	1 618 800	1 760 000	4.88	4.64	7 893 000	8 160 400
			OTHER CROPS			
Winter Wheat	182 000	190 000	2.66	2.15	484 000	408 000
Durum Wheat	243 000	324 000	2.15	2.10	523 000	680 000
Mixed Grains	64 800	61 000	3.14	2.67	204 000	163 000
Fall Rye	85 000	73 000	2.45	1.74	208 000	127 000
Spring Rye	16 200	16 200	1.72	1.57	27 900	25 400
Corn for Grain	3 600	3 600	6.06	5.86	21 800	21 100
Peas, dry	10 500	28 300	2.36	1.92	24 800	54 400
Lentils	2 400	20 200	0.96	1.35	2 300	27 200
Mustard Seed	25 100	20 200	1.17	1.21	28 363	24 500
Potatoes	9 100	9 100	26.89	32.86	245 000	299 000
Sugar Beets	11 500	11 900	51.74	47.48	595 000	565 000
Fodder Corn	10 100	7 300	44.95	31.10	454 000	227 000

SOURCES AND METHODS

The general procedure used in preparing this yearbook has remained similar since 1972. A large percentage of the material presented for the current year was based on estimates derived from sample data. Users are reminded that the data is subject to revision.

INCOME

Various people within Alberta Agriculture, Statistics Canada, Agriculture Canada and Industry have been valuable as sources for the estimation of Farm Cash Receipts and Expenses.

The Alberta Input Monitoring System (AIMS), under the auspices of Alberta Agriculture has been used as a source for input data. Further information regarding AIMS or any of the other data is available through the Statistics Branch of Alberta Agriculture.

CROPS

Total production value includes all crops grown on farms in the current year for sale, feed, seed and home consumption at the prevailing market prices during the crop year. The method of disposal of these crops for various uses in the current or subsequent years may have very little effect on the total value. Production value for each crop represents value to the producer.

Prices used to calculate value of production are those which farmers receive at the shipping point less freight, handling and other marketing charges. Transportation costs incurred by farmers themselves in delivering grain to elevators are included with farm expenses. The estimated final prices are subject to revision after all relevant sales and payments are made.

Major crop areas are estimated by Statistics Canada in cooperation with Alberta Agriculture. Minor crops, such as sugar beets and mustard seed are estimated through contacts with dealers, processors, and Alberta Agriculture field staff. Estimates are for seeded acres in most cases, and yields are reported on the land devoted to the crop at seeding time except oats and barley which are based on harvested areas. The November estimates (Statistics Canada 22-002) contain the latest area and yield estimates.

Statistics Canada, Agriculture/Natural Resources Division developed yields of major crops through surveys.

Hail and crop insurance data were obtained from Alberta Hail and Crop Insurance Corporation. Wheat Board Payments are reported by the Canadian Wheat Board. Lakehead selling prices are recorded by the Canadian Grain Commission. Non-Board prices for the major centres in the province are those developed through the Alberta Feed and Forage Exchange.

Forage seed data are from Plant Production Division, Agriculture Canada.

Dry bean statistics were provided by the Pulse Growers Association of Alberta.

Fertilizer sales volumes were provided by Canadian Fertilizer Institute Association.

LIVESTOCK

Market and other data for cattle, hogs and sheep are obtained from the Agriculture Canada publication "Canadian Livestock and Meat Trade Report" and Statistics Canada. Prices pertain to stockyard sales and direct sales.

Data on artificial insemination, brand inspection, horse regulation and dairy were obtained from Animal Industry Division, Alberta Agriculture.

Monthly Poultry prices are the average of recorded weekly prices from Agriculture Canada. Production values were obtained from Statistics Canada, publication 23-202 and the Poultry Branch, Alberta Agriculture. Data on hatchery capacity, chick production and disposition, poult production and poultry eviscerated in registered stations were partly supplied by the Poultry Branch, Alberta Agriculture, and partly obtained from the Agriculture Canada Publication "Poultry Market Review".

FOODS

Food and Beverage Industry Statistics were obtained from Statistics Canada Publications 32-203 and 31-001. Figures for Gross Domestic Product (GDP) were published in Alberta Economic Accounts released by the Alberta Bureau of Statistics. The Consumer Price Index (CPI) was used in constant dollar calculations.

The Retail food price indices were developed from data collected and assembled by Alberta Agriculture. Further information is available through Statistics Branch, Alberta Agriculture.

EXPORTS

Out-of-province shipments, as used in this year-book, includes shipments to other provinces as well as out-of-country exports. The primary sources of data for out-of-country exports were Statistics Canada Catalogues 65-003 (Exports by Countries) and 65-004 (Exports by Commodities) supplemented with provincial level information from the Alberta Bureau of Statistics and other Statistics Canada publications. In addition, the information necessary to adjust Statistics Canada data to estimate Alberta exports was gathered from many sources within Alberta Agriculture, other government departments and industry.

OTHER PRODUCTS

Alberta Agriculture in cooperation with Statistics Canada produce honey estimates.

Fur data are obtained from the Animal Health Division.